iVMS-7200 B/S Client

User Manual

UD.6L0204D1060A01

Thank you for purchasing our product. If there is any question or request, please do not hesitate to contact the dealer.

This manual is applicable to iVMS-7200 B/S Client.

This manual may contain several technically incorrect places or printing errors, and the content is subject to change without notice. The updates will be added into the new version of this manual.

We will readily improve or update the products or procedures described in the manual.

The figures shown in this manual are for reference only. The appearance and interface of the device are subject to the actual model.

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Chapter 1 Overview

1.1 Description

Based on B/S architecture, iVMS-7200 is applicable to video surveillance management of the front-end devices. The platform is composed of 3 functional modules: Monitoring module, Query module and Configuration module. With the database built in the central server, you can get the real-time live view, video recording, user management, statistical reports, etc., through the web browser.

- **Monitoring Module**
  You can view the live video, play back the record files, get the GPS location and play back the motion track of the front-end devices.
- **Query Module**
  You can search the device log files, server alarm information, device and server status, and flux of devices. Different statistical reports are also supported.
- **Configuration Module**
  You can configure the resource information, user accounts and upgrade the front-end devices.

1.2 Running Environment

Hardware Environment

Server:
Processor: XEON 3440 @ 2.53G, Quad-core, 8M
Motherboard: 3420GPLC
Memory: 2*2GB DDR3 ECC
HDD: 1*500G SATA
Network Card: 1000Mps

Client:
CPU: Intel /AMD @ 1.6GHz or above, Dual-core
Memory: 2G or above, DDR2
Network Card: Intel or RealTek, 100Mbps or above (with latest network card driver)

Software Environment

Server:
Operating System: Windows Server 2008 R2 Standard SP1
J2EE Server: Tomcat 6.0.18
Database Server: postgresql-9.2.4

Client:

Operating system: Microsoft Windows 7

Graphic Driver: Overlay mode supported

Web browser: IE8, IE9, IE10, IE11

Chapter 2 Starting iVMS-7200

2.1 Login

1. Input the IP address of the central server in the address bar of the web browser, for example, http://172.10.6.211, and press the **Enter** key to enter the login interface.
2. Input the user name and password of the system. The default user name and password are *admin* and *12345*.
3. Select the route to the server for connection. Optionally, you can show / hide the route selector. Up to 4 routes are supported.
4. Select the language from the drop-down list in the upper-right corner. Chinese and English are selectable.
5. Click **Login** to log in the system.

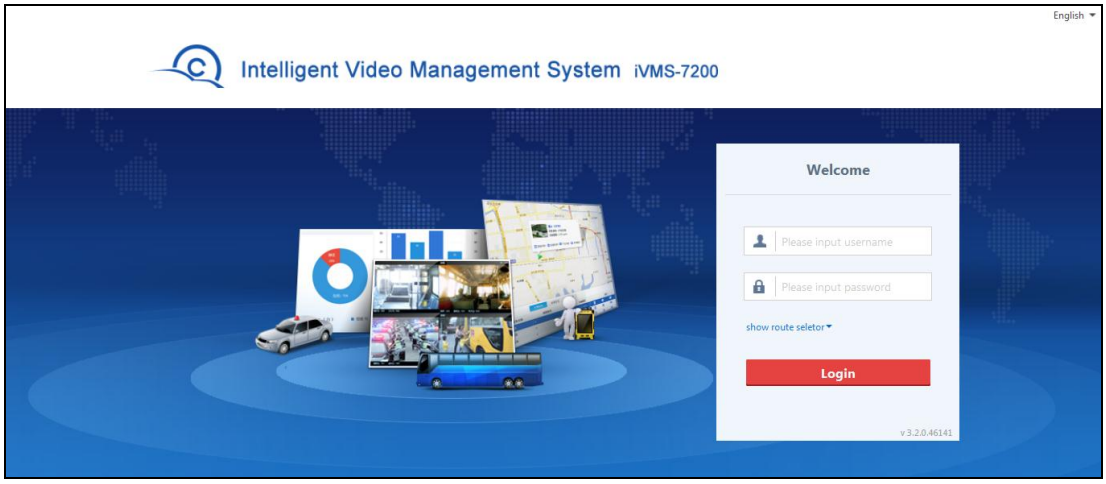

Figure 2. 1 Login

2.2 Home Page

After you log in the system successfully, the home page of iVMS-7200 is shown as follows:

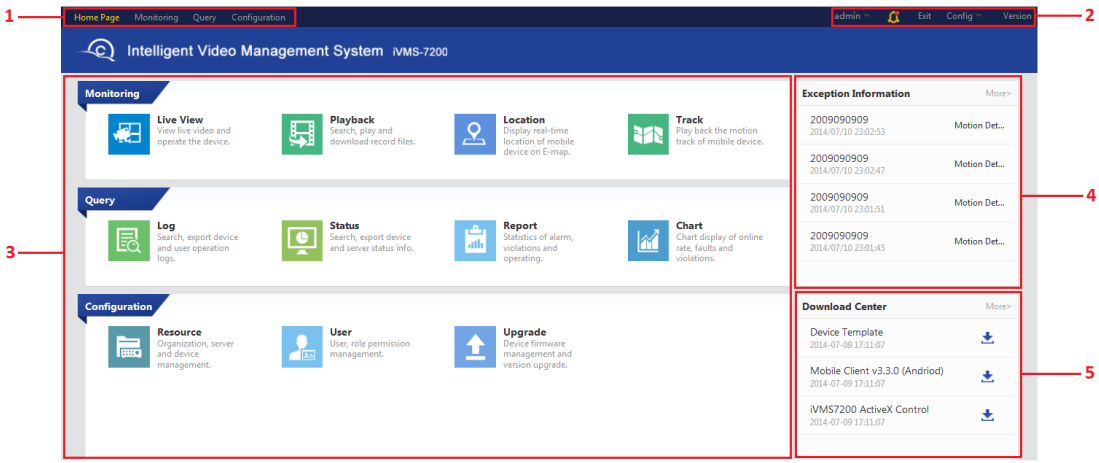

Figure 2. 2 Home Page

1. Navigation Bar:

Navigate to the Home Page, Monitoring module, Query module and Configuration module.

2. System Management

You can view the current user and system version; modify the password; configure the system / basic settings and exit from the system.

3. Functional Modules

There are 3 functional modules supported: Monitoring module, Query module and Configuration module.

4. Exception Center

Alarm information of the current day is released on the Exception Center. Click **More** and you can view the details including device name, alarm time, alarm type, etc.

5. Download Center

Related software and plugin are provided for downloading, including Device Template for importing, Mobile Client software and iVMS-7200 ActiveX Control. Click **More**, and then you can view all the files on the Download Center and can also upload files to the Download Center.

NOTE

When the alarm information of devices is uploaded to the platform, the icon will be displayed in the upper-right corner of the interface. Move the mouse to the icon, and you can view the details of the alarm.

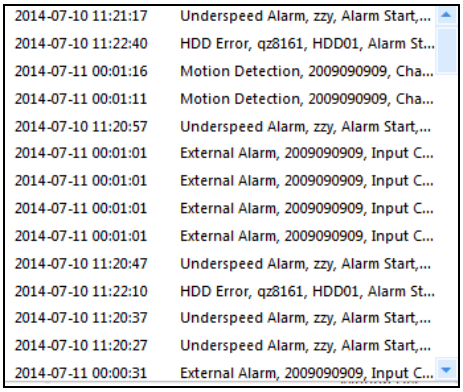

Figure 2. 3 Alarm Information

2.3 System Configuration

2.3.1 Configuring System Settings

Purpose:

The resource tree sorting, data expired time, GIS location, speed limit and message push settings can be configured on the system configuration page.

Steps:

1. Move the mouse to the **Config** in the upper-right corner on the interface and then select **System Config**.
2. Click the **System Configuration** tab to configure the general system parameters.
   - **Resource Tree Sorting:** Select the sorting method for the resource tree. The resource includes

devices and organizations. You can sort the resource by the input sequence or resource name.

- **Data Expired Time:** The data here refers to the GPS information, log files, alarm messages and captured pictures. For example, if you set the GPS expired time as 90, the vehicle GPS information will be saved for 90 days.

The data expired time value should be more than 0.

- **GIS Config:** The longitude and latitude values define the location of E-map center.
- **Speed Config:** Input the maximum speed and minimum speed value for speed limit.
- **Message Push Confg:** Input the IP address of the server for message pushing and set the HTTPS port and HPP port.

3. Click **Save**, and log in to the system again to activate the new settings.

The item labeled with "*" cannot be empty.

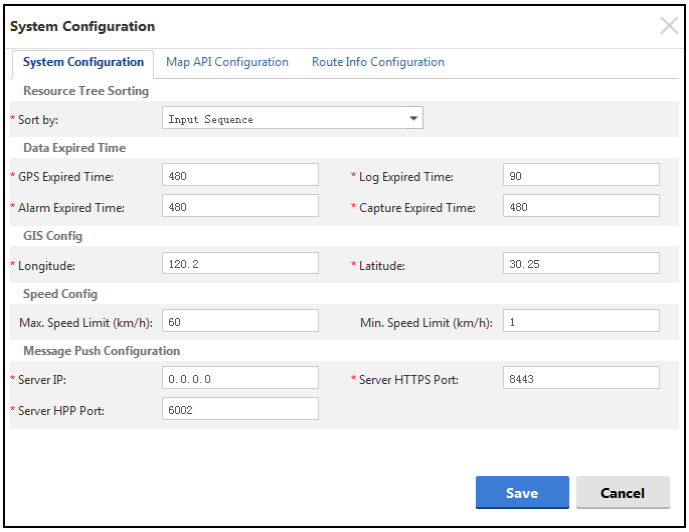

Figure 2. 4 System Configuration

2.3.2 Configuring Map API Settings

Purpose:

The API address of Google Map and HikGis Map can be set.

Steps:

1. Move the mouse to the **Config** in the upper-right corner on the interface and then select **System Config**.
2. Click the **Map API Configuration** tab to configure the API settings of maps.
3. If the Google Map is adopted, input the API address of the Google Map in the text field.
   If the HikGis Map is adopted, input the API address of HikGis Map, the server address and iVMS-7200 platform address in the corresponding text fields.
4. Click **Save**, and log in to the system again to activate the new settings.

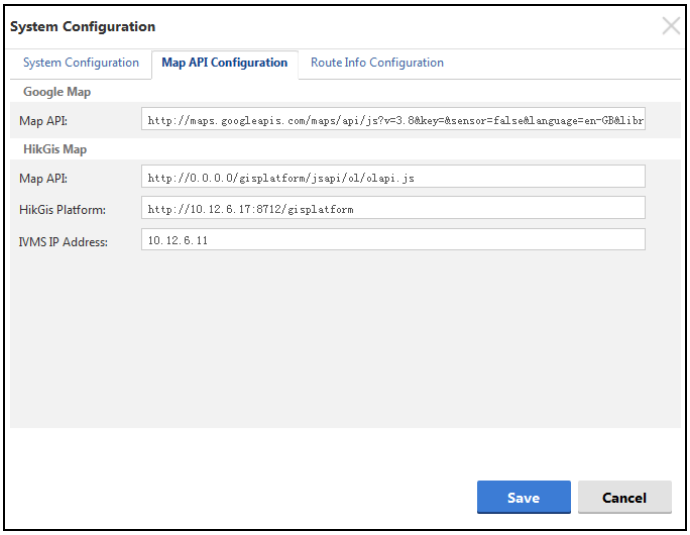

Figure 2. 5 Map API Configuration

2.3.3 Configuring Route Info Settings

Steps:

1. Move the mouse to the **Config** in the upper-right corner on the interface and then select **System Config**.
2. Click the **Route Info Configuration** tab to configure the route settings of system.
3. Check the checkbox of route to select it for use. 4 routes are configurable.
4. Edit the route name as desired in the text field, and then Input the IP address of Web server and port No. of web service.
5. Click **Save**, and log in to the system again to activate the new settings.

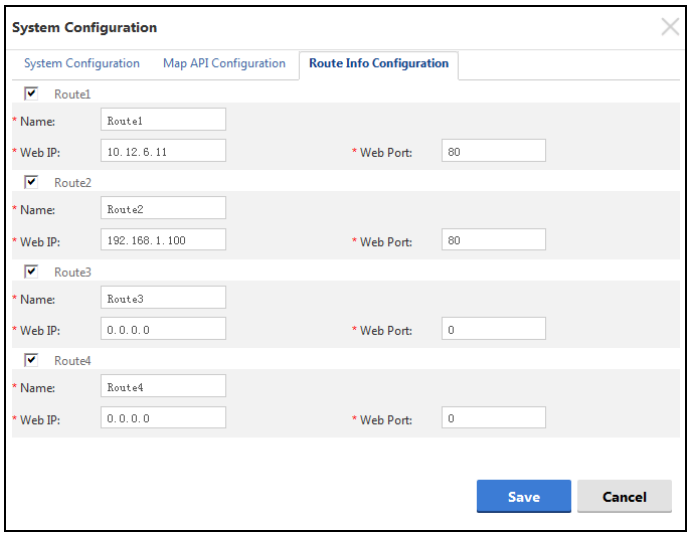

Figure 2. 6 Route Info Configuration

2.4 Local Configuration

Purpose:

The files saving path, video reconnection time, video cached time and map type can be configured on the local

configuration page.

Steps:

1. Move the mouse to the **Config** in the upper-right corner on the interface and then select **Local Config**.
2. Click **Browse**, and you can set the local saving path for captured pictures, download files, and recordings.
   - **Capture in Live View:** Set the saving path of the pictures captured in live view.
   - **Capture in Playback:** Set the saving path of the pictures captured in playback.
   - **Download File:** Set the saving path of the download files.
   - **Local Record:** Set the saving path of the local recordings.
3. Select the video reconnection time from the drop-down list.
   When the system fails to get the video stream, it will reconnect the front-end devices after the configured reconnection time.
4. Set the video cached time to ensure higher fluency.
5. Select the map type from the drop-down list.
   Google Map and HikGis Map are selectable.
6. Select the stream getting mode from the drop-down list.
   Fluency Priority (TCP, recommended) and Real-time Priority (UDP) are selectable.
7. Click **OK** to save the settings.

NOTE

The video reconnection time ranges from 8 to 60 seconds; and the video cached time ranges from 0 to 60 seconds.

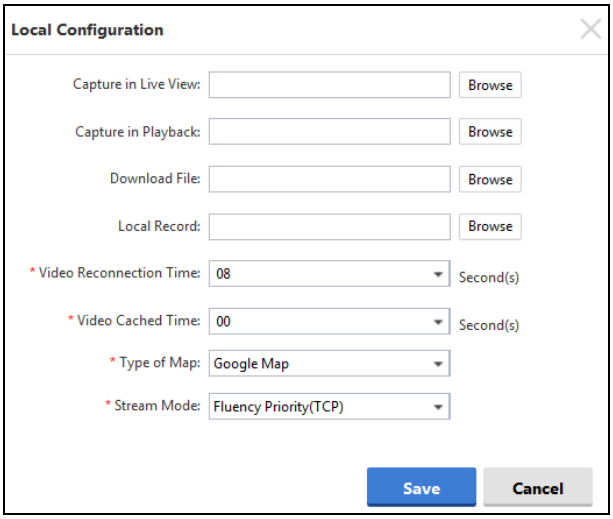

Figure 2. 7 Local Configuration

2.5 Version Information

Click the **Version** in the upper-right corner on the interface to open the Version page. You can view the version information of the system, including the name, version and copyright notice.

Figure 2. 8 Version Information

2.6 Plug-in Installation

Purpose:

To view the live video of the front-end devices through iVMS-7200, the mobile video surveillance plugin needs to be installed.

Steps:

1. Click of **iVMS7200 ActiveX Control** in the Download Center module on the Home Page interface, and save the plug-in program on the local PC.

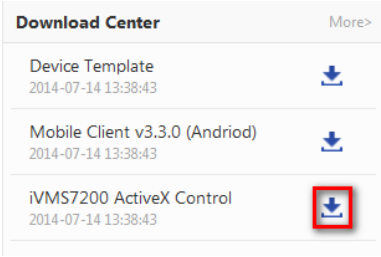

Figure 2. 9 Download the Plug-in

2. Double-click the program file iVMS7200ActiveXSetup, select the language for installation, and click **OK** to start the installation.

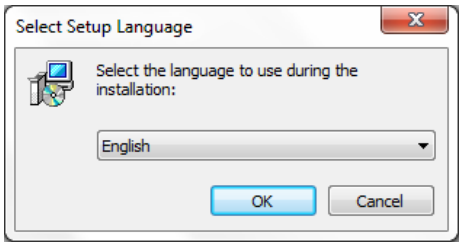

Figure 2. 10 Select Installation Language

3. Follow the prompts to install the plug-in.

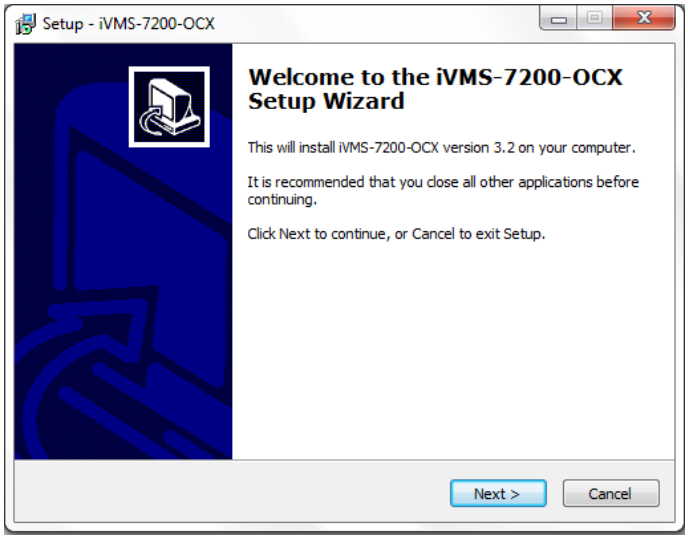

Figure 2. 11 Install the Plug-in

4. Click **OK** to complete the installation.

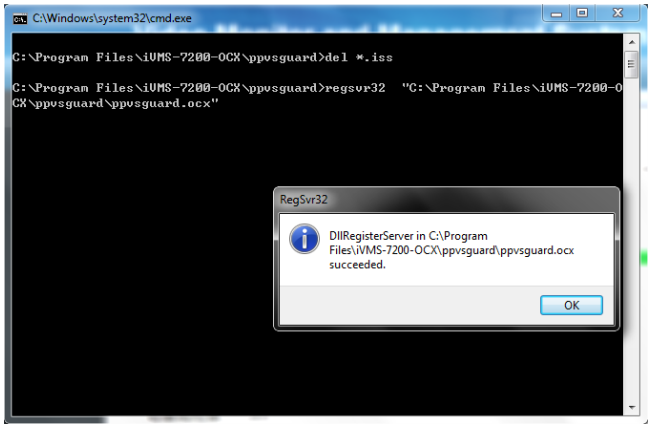

Figure 2. 12 Complete the Installation

2.7 Account Management

Purpose:

You can view the user information, change the password and logout from the system.

Steps:

1. Move the mouse to the name of the current login user in the upper-right corner on the interface and then select **Basic Info**. You can view the user information including mobile phone No., expiration time and detailed description.

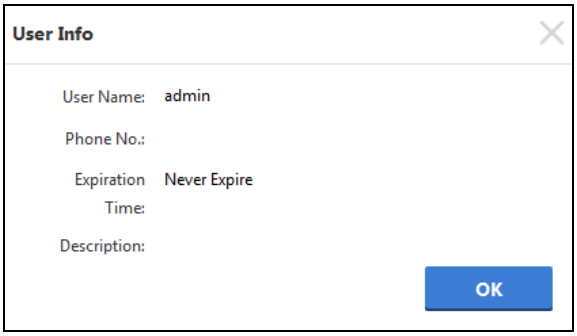

Figure 2. 13 View User Information

2. Change the password of the current login user.
   1) Move the mouse to the user name in the upper-right corner and then select **Change Password**.
   2) Input the current password, new password and confirm password.
   3) Click **Save** to save the new settings.

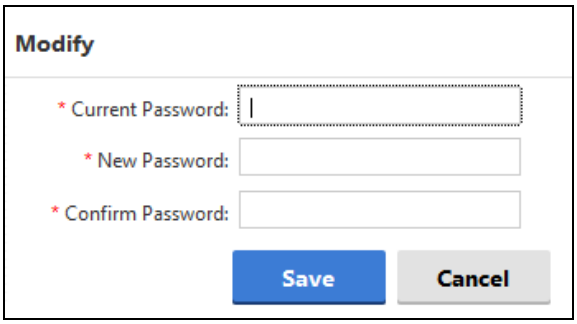

Figure 2. 14 Change Password

3. Click **Exit** in the upper-right corner on the interface, confirm the pop-up message box, and you can log out from the system.

Figure 2. 15 Logout

Chapter 3 Configuration Sub-system

Figure 3. 1 Configuration Module

3.2 Resource Management

Purpose:

Resources including devices and servers can be added to the system, and you can manage the devices and servers in unit of organization.

Click the Resource icon on the Home Page;

or click the **Resource** tab on the Configuration Subsystem page to enter the Resource Management interface

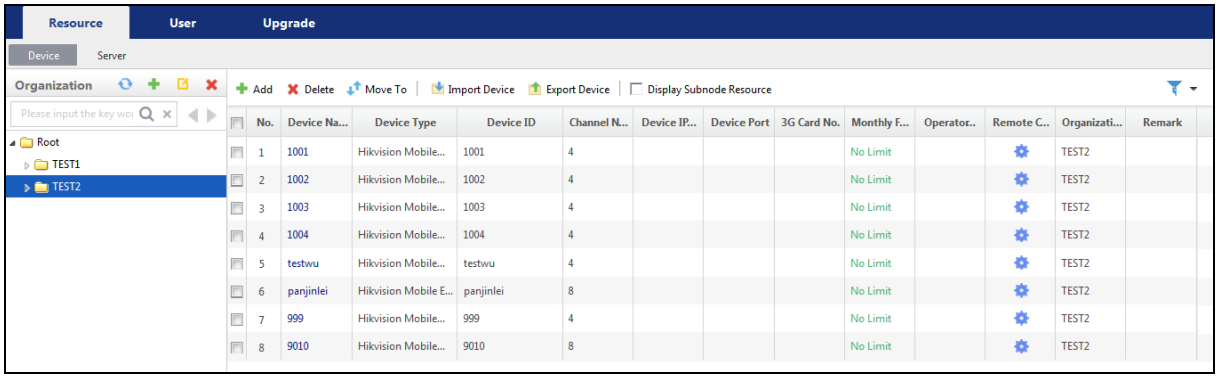

Figure 3. 2 Resource Management

3.2.1 Configuring the Organization

Enter the Resource Management interface, the resource tree is displayed in unit of organization on the left-side. You can add, modify and delete the organization if needed.

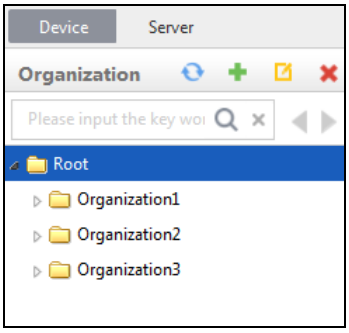

Figure 3. 3 Resource Tree

Adding the Organization

Steps:

1. Select the parent organization in the resource tree on the left-side..
2. Click the icon to open the Add Organization dialog box.
3. Input the organization name in the text field.
4. Select the icon for the organization from the drop-down list.
5. Click **Save** to save the settings. The organization will be displayed in the resource tree on the left-side.

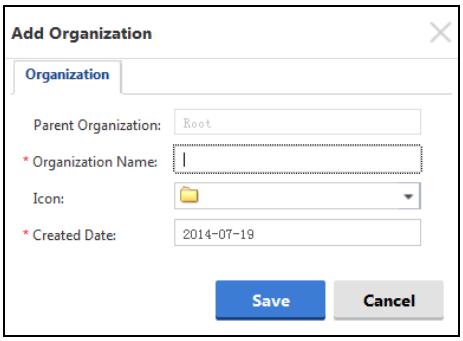

Figure 3. 4 Add Organization

Managing the Organization

Select the organization in the resource tree on the left-side, click the icon , and then you can modify the information of the selected organization.

Select the organization in the resource tree on the left-side, click the icon , and then you can delete the selected organization.

Click the icon , and you can refresh the information of the organizations on the list.

3.2.2 Configuring the Server

Enter the Resource Management interface and Click the **Server** tab to open the Server Management page. The added servers are displayed on the list, and you can view the detailed information including server type, IP address, port No., etc.

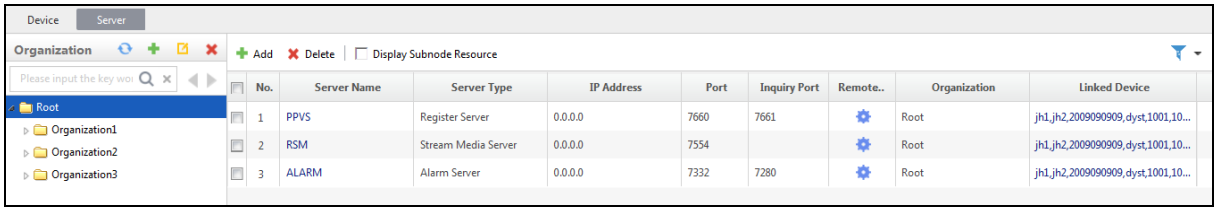

Figure 3. 5 Server Management

Adding the Server

Steps:

1. Select the organization in the resource tree on the left-side and click **Add** on the Server Management page.
2. Select the server type from the drop-down list.
3. Input the server name in the text field.
4. Select **Yes** or **No** to share the server IP address and port with lower-level users or not.
5. Input the IP address and port of server. Up to 4 access routes to the server are supported.

6. Click **Save** to save the settings. The newly added server will be displayed on the server list.

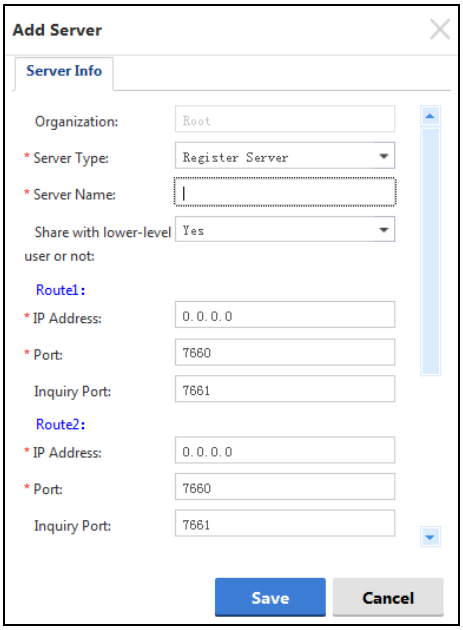

Figure 3. 6 Add the Server

Managing the Server

1. To modify the server information, click the server name on the server list.

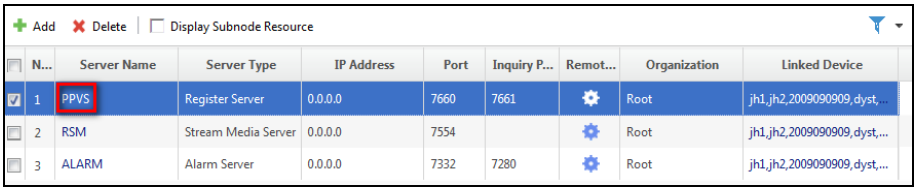

Figure 3. 7 Modify the Server

2. To delete the added server, select the server from the list and click **Delete**.

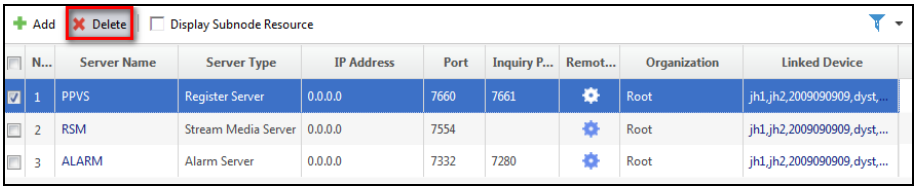

Figure 3. 8 Delete the Server

3. Optionally, you can check the checkbox of **Display Subnode Resource** to display the servers in the sub organizations on the list.

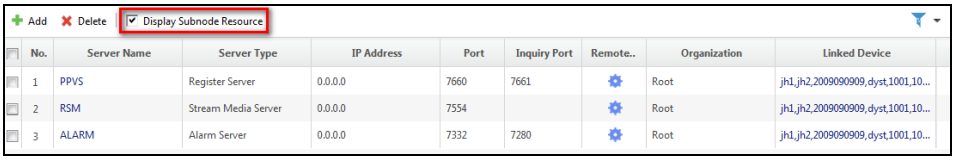

Figure 3. 9 Display Subnode Resource-Server

4. To filter the servers, click the Filter icon , input the server name in the text field, and click the **Filter** button to search out the desired servers. You can click the **Reset** button to clear the search results.

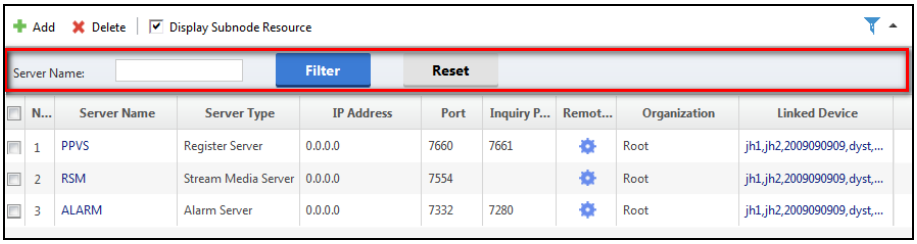

Figure 3. 10 Filter the Servers

5. To configure the server parameters remotely, select the server on the list, click the icon , and you can configure the server parameters including port No., web verification, time synchronization, etc.

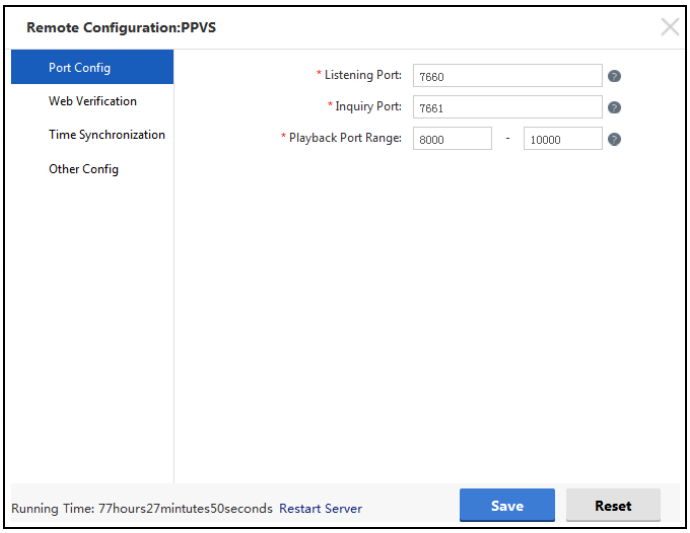

Figure 3. 11 Configure Server Parameters

6. To view the devices linked to the server, click the corresponding Linked Device item on the list.

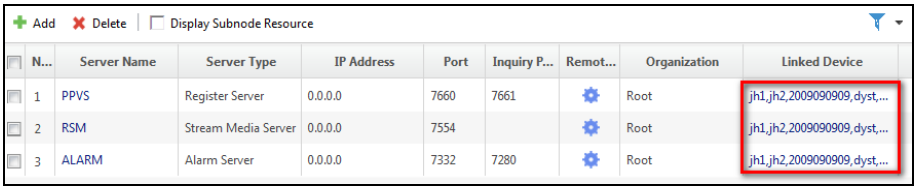

Figure 3. 12 Linked Device

3.2.3 Configuring the Device

Enter the Resource Management interface and Click the **Device** tab to open the Device Management page. The added devices are displayed on the list, and you can view the detailed information including device name, device type, device ID, etc.

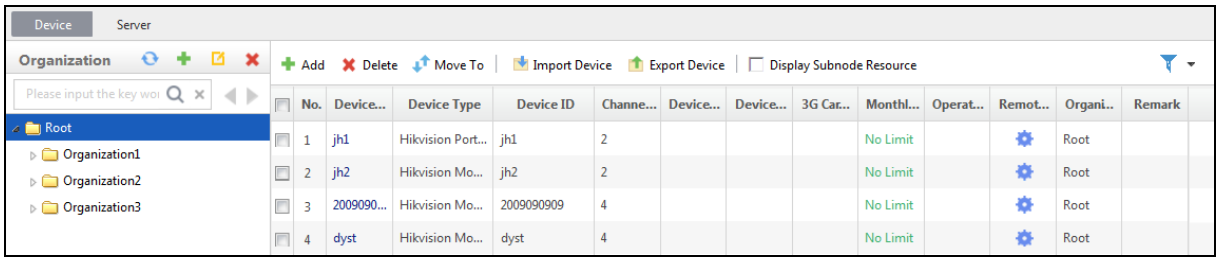

Figure 3. 13 Device Management

Adding the Device

Steps:

1. Select the organization in the resource tree on the left-side and click **Add** on Device Management page.
2. Click the **Basic Info** tab, and then input the required information.
   - **Adding Mode:** Select Device ID as the adding mode.
   - **Device Name:** Input a nickname as you want for the added device.
   - **Device ID:** Input the ID of the device.
   - **Device Type:** 3 types of devices are selectable: Mobile DVR, Portable DVR and Mobile Enforcement System.
   - **Channel Number:** Input the channel number of the added device. The default value is 4, and the maximum value is 32.
   - **Register Server:** Select the added register server for the device.
   - **Alarm Server:** Select the added alarm server for the device.
   - **Stream Media Server:** Select the added stream media server for the device.
   - **Stream Media Server Mode:** Compulsory Mode only.
   - **Protocol:** Select the transmission protocol for the stream media server. TCP and UDP are selectable.
   - **Stream Type:** Transmit the video in main stream or sub-stream.
   - **Server Connection Route:** Select the access routes to the server.
   - **Device Icon:** Select the icon for the device.
   - **Enable Channel-zero:** Check / Uncheck the checkbox to enable / disable the channel-zero function.
   - **Monthly Flow:** Set the flow limit each month for the device.
   - **3G Card No.:** Input the 3G Card No. of the device (only available for 3G devices).
   - **Operator Info:** Input the information of network service operator (only available for 3G devices).
   - **Remark:** Input the note information of the device.
3. Click the **Channel Config** tab, and you can edit the channel name of the device as desired.
4. Click **Save** to save the settings. The newly added device will be displayed on the device list.

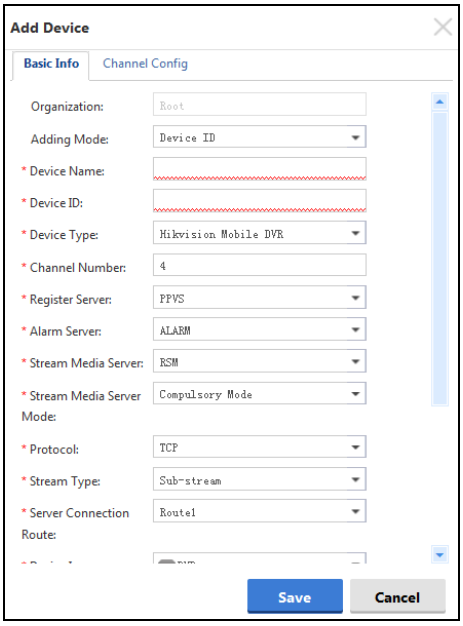

Figure 3. 14 Add the Device

Managing the Device

1. To modify the device information, click the device name on the device list.

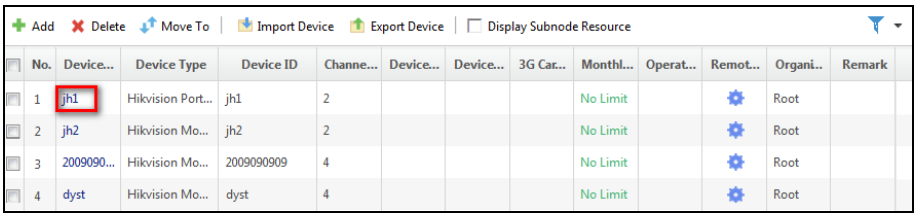

Figure 3. 15 Modify the Device

2. To delete the added device, select the device from the list and click **Delete**.

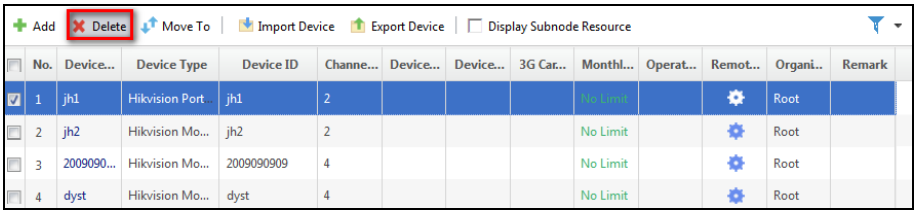

Figure 3. 16 Delete the Device

3. To move the device to another organization:
   1) Select the device from the device list.
   2) Click **Move to** to open the Move To page.
   3) Select the target organization
   4) Click **Save** to save the settings.

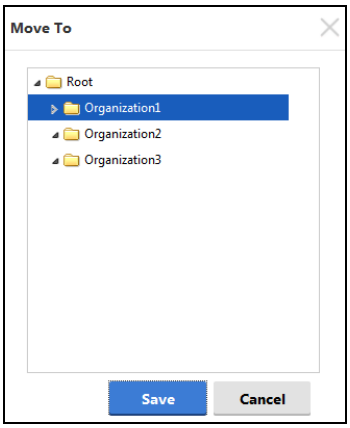

Figure 3. 17 Move the Device

4. To import the device to the system:
   1) Click **Import Device** to open the Import Device page.
   2) Click the **Browse…** button, and then select the device information file from the local PC.
   3) Click **Save** to save the settings.

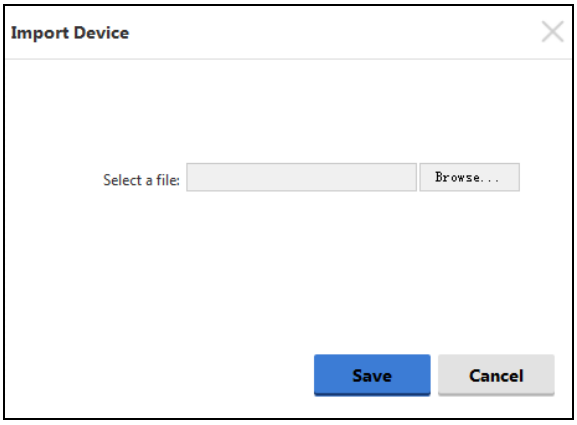

Figure 3. 18 Import the Device

NOTE

The device information file should be set in some specified format. For details, you can refer to the file exported from the system.

5. To export the device from the system:
   1) Check the checkbox to select the device from the device list.
   2) Click **Export Device** to export the device information to the local PC.
   3) Click **Save** and set the saving path for the file.

Figure 3. 19 Export the Device

6. Optionally, you can check the checkbox of **Display Subnode Resource** to display the devices of the sub organizations on the list.

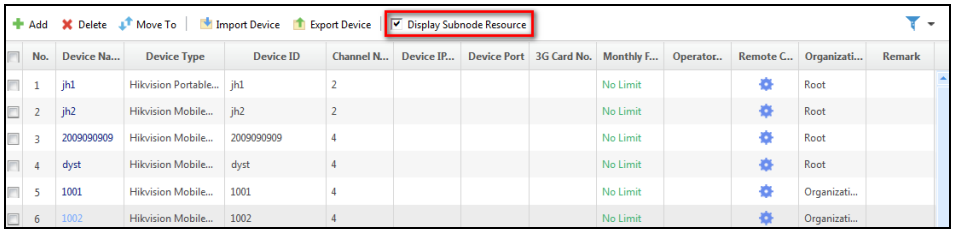

Figure 3. 20 Display Subnode Resource-Device

7. To filter the devices, click the Filter icon , input the device name, device type, IP address and device port in the corresponding text fields, and click the **Filter** button to search out the desired devices. You can click the **Reset** button to clear the search results.

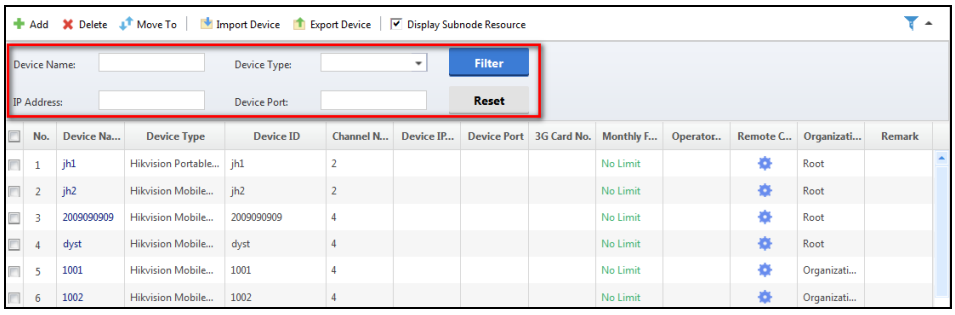

Figure 3. 21 Filter the Devices

8. To configure the device parameters remotely, select the device on the list, click the icon , and you can

configure the device parameters remotely. For details, see *Section 4.1.10 Remote Configuration*.

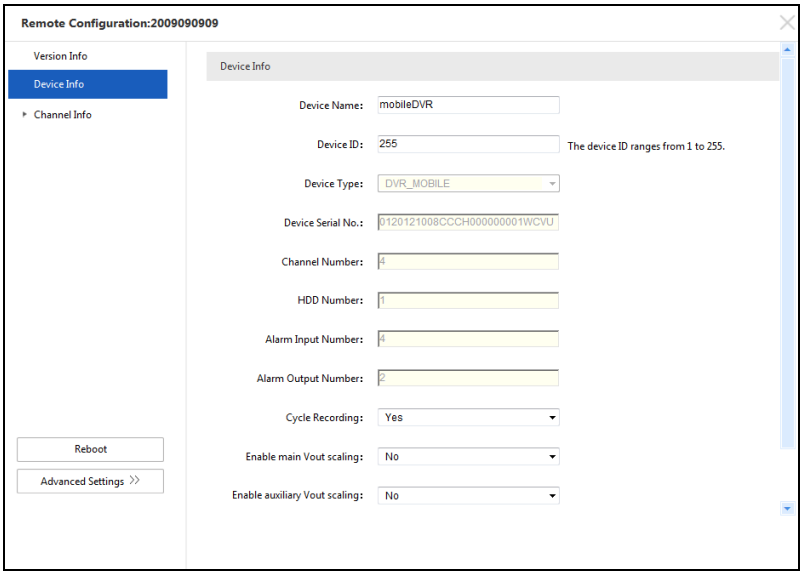

Figure 3. 22 Configure Device Parameters

3.3 Account Management

Purpose:

Multiple roles with different permissions can be added to the system, and you can create users as different roles and assign permissions to the users.

Click the User icon on the Home Page;

or click the **User** tab on the Configuration Subsystem page to enter the Account Management interface.

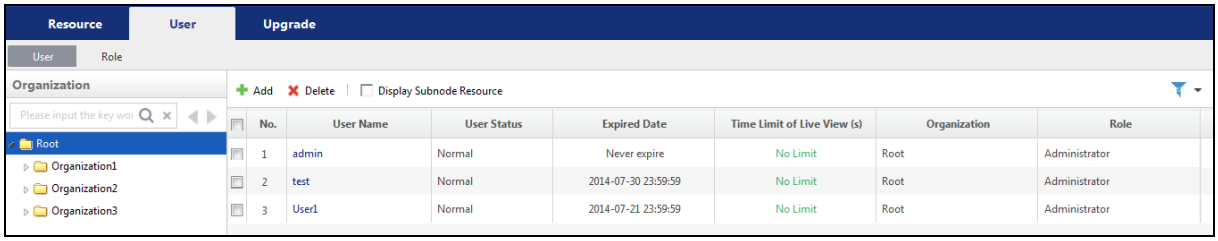

Figure 3. 23 Account Management

3.3.1 Configuring the Role

Enter the Account Management interface and click the **Role** tab to open the Role Management page. The added roles are displayed on the list, and you can view the name and description of the roles.

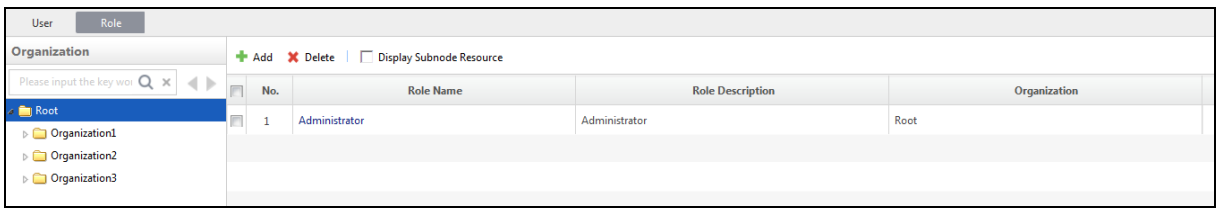

Figure 3. 24 Role Management

Adding the Role

Steps:

1. Select the organization in the resource tree on the left-side and click **Add** on the Role Management page.
2. Click **Add** on the Role Management page to open the Add Role dialog box.
3. Input the role name in the text field as you want.
4. Optionally, you can input some detailed descriptions for the added role.
5. Click the **Module Permission** tab. Then, select and assign the permissions of modules to the role, including Configuration module, Monitoring module and Query module.
6. Click the **Function Permission** tab. Then, select and assign the permissions of functions to the role, including device remote configuration, PTZ control, live view link, message sending and server remote configuration.
7. Click the **Visible Device(s)** tab. Then, select the device(s) for the role to manage.
8. Click **Save** to save the settings. The newly added role will be displayed on the role list.

NOTE

The *Administrator* has all the permissions by default and cannot be modified or deleted.

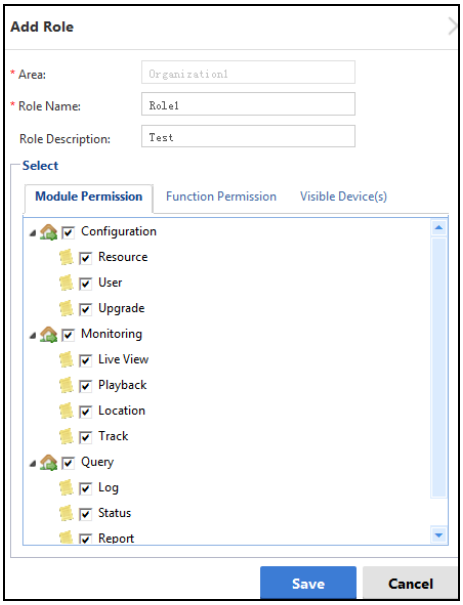

Figure 3. 25 Add the Role

Managing the Role

1. To modify the role information, click the role name on the role list.

Figure 3. 26 Modify the Role

2. Select the role from the list and click **Delete**, and you can delete the selected role.

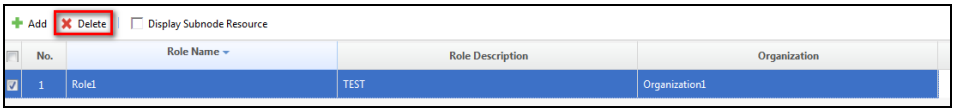

Figure 3. 27 Delete the Role

3. Optionally, you can check the checkbox of **Display Subnode Resource** to display the roles in the sub organizations on the role list.

Figure 3. 28 Display Subnode Resource-Role

3.3.2 Configuring the User

Enter the Account Management interface and click the **User** tab to open the User Management page. The added users are displayed on the list, and you can view the name, status, expired date and role of the users.

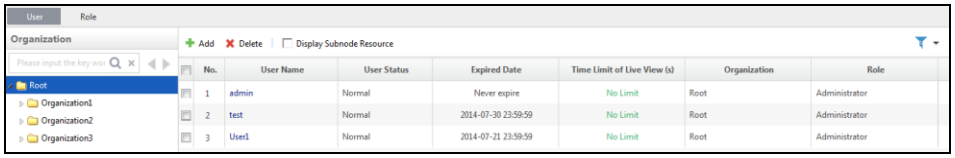

Figure 3. 29 User Management

Adding the User

Steps:

1. Select the organization in the resource tree on the left-side and click **Add** on the User Management page.
2. Click the **User** tab, and then input the required information
   - **User Name:** Input the user name in the text field as you want.
   - **Mobile Number:** Optionally, you can input the mobile number of the user.
   - **Password:** Input the password of the user.
   - **Confirm Password:** Input the confirm password.
   - **Expired Date:** Click to specify the expired date. The user will be invalid after the expired date.
   - **Time Limit of Live View (s):** Set the time limit of live view for the user. When you log in to the system with the user and start the live view, the live view will stop automatically after the time limit. The time limit value should be no more than 20 and 0 refers No Limit.
3. Optionally, you can input some messages of the user in the remark field.
4. Click the **Role** tab, and select the role for the user.
5. Click **Save** to save the settings. The newly added user will be displayed on the user list.

The *admin* account is a member of *Administrator*. It has all the permissions by default and cannot be deleted. You can only modify the password of the *admin* account.

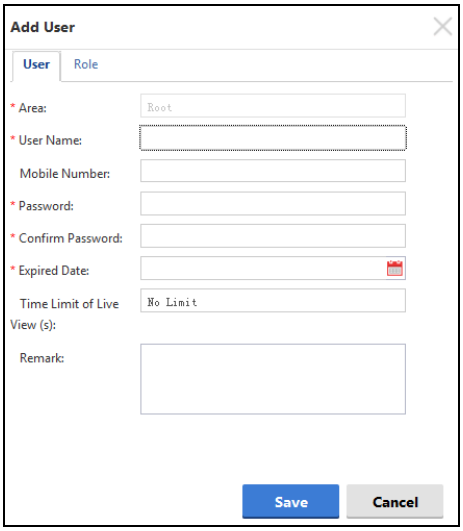

Figure 3. 30 Add the User

Managing the User

1. To modify the user information, click the user name on the user list.

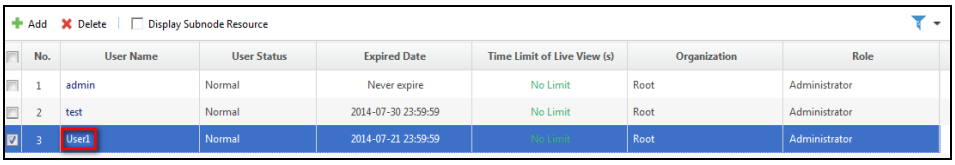

Figure 3. 31 Modify the User

2. To delete the user, select the user from the user list and click **Delete**.

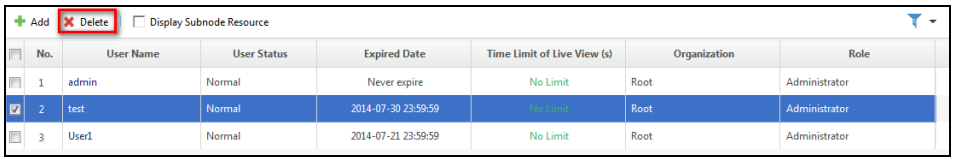

Figure 3. 32 Delete the User

3. Optionally, you can check the checkbox of **Display Subnode Resource** to display the users in the sub organizations on the user list.

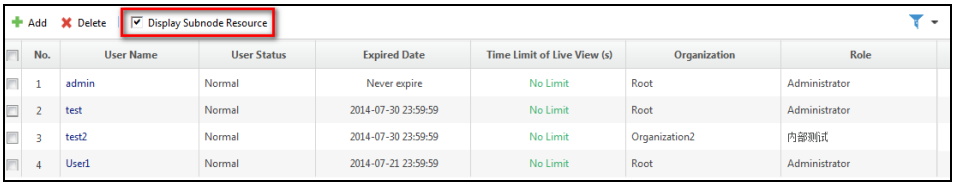

Figure 3. 33 Display Subnode Resource-User

4. To filter the users, click the Filter icon , input the user name and user status in the text fields, and click the **Filter** button to search out the desired users. You can click the **Reset** button to clear the search results.

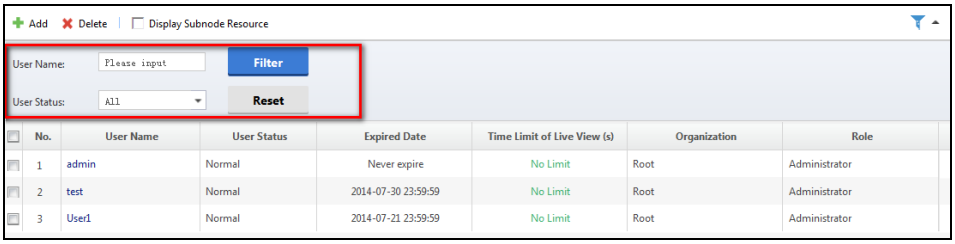

Figure 3. 34 Filter the Users

3.4 Device Upgrade

Purpose:

The devices can be upgraded remotely.

Click the Upgrade icon on the Home Page;

or click the **Upgrade** tab on the Configuration Subsystem page to enter the Upgrade Management interface.

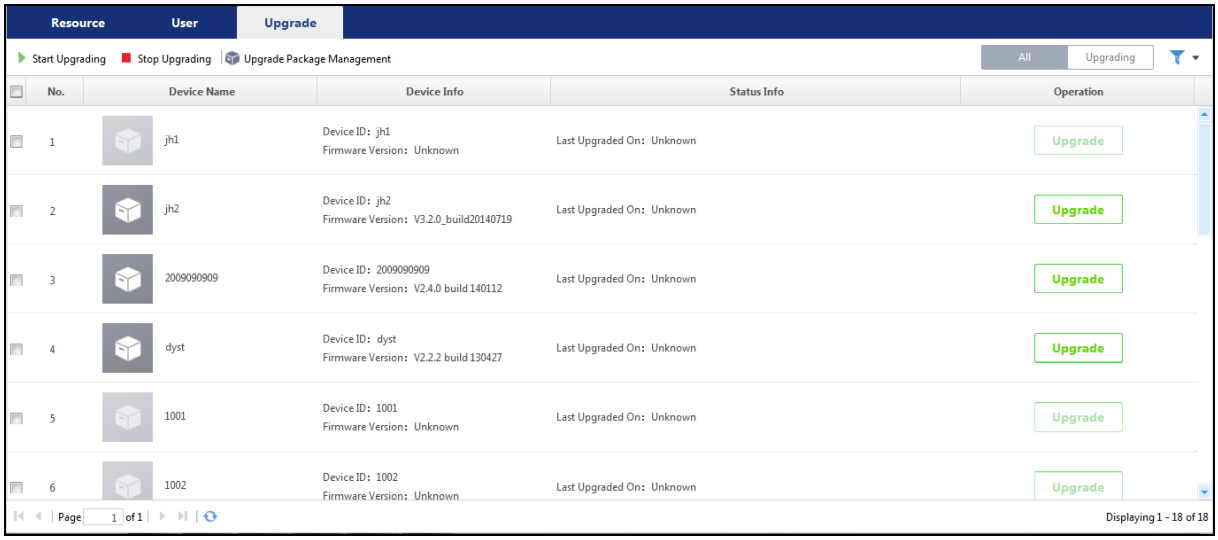

Figure 3. 35 Upgrade Management

Steps:

1. Check the checkbox to select the device(s) for upgrading.

   Optionally, you can firstly click the Filter icon in the upper-right corner, set the filtering conditions and then search out the desired devices.
2. Click **Start Upgrading** on the top of the device list;

   Or click the **Upgrade** button in the same row with the device to open the Upgrade Device dialog box.
3. Select the upgrade package from the drop-down list.

   You can also click the **Upload New File** button to upload new upgrade packages for the devices.
4. Click the **Upgrade** button to start the device upgrading process.
5. You can click **Stop Upgrading** on the top of the device list to stop the device upgrading process.
6. You can click **Upgrade Package Management** on the top of the device list to upload new upgrade packages.

NOTE

- Make sure the route info, including the Web IP address and port No., are set properly on the system configuration page.

- Up to 20 upgrade packages can be uploaded, and the upgrade package file should be in the format of *.dav, *.mav or *.zip.

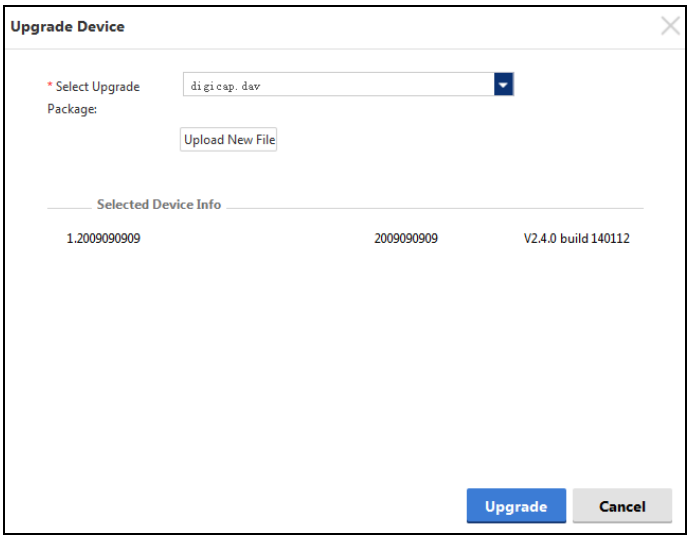

Figure 3. 36 Upgrade the Device

Chapter 4 Monitoring Sub-system

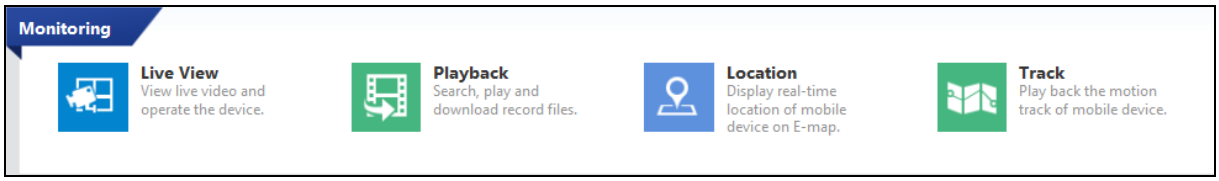

Figure 4. 1 Monitoring Module

4.1 Live View

Purpose:

You can view the live video from the front-end devices. And some basic operations are supported, including picture capturing, video parameters settings, PTZ control, etc.

Click the icon on the Home Page,

or click the **Live View** tab on the Monitoring Subsystem page to enter the Live View interface.

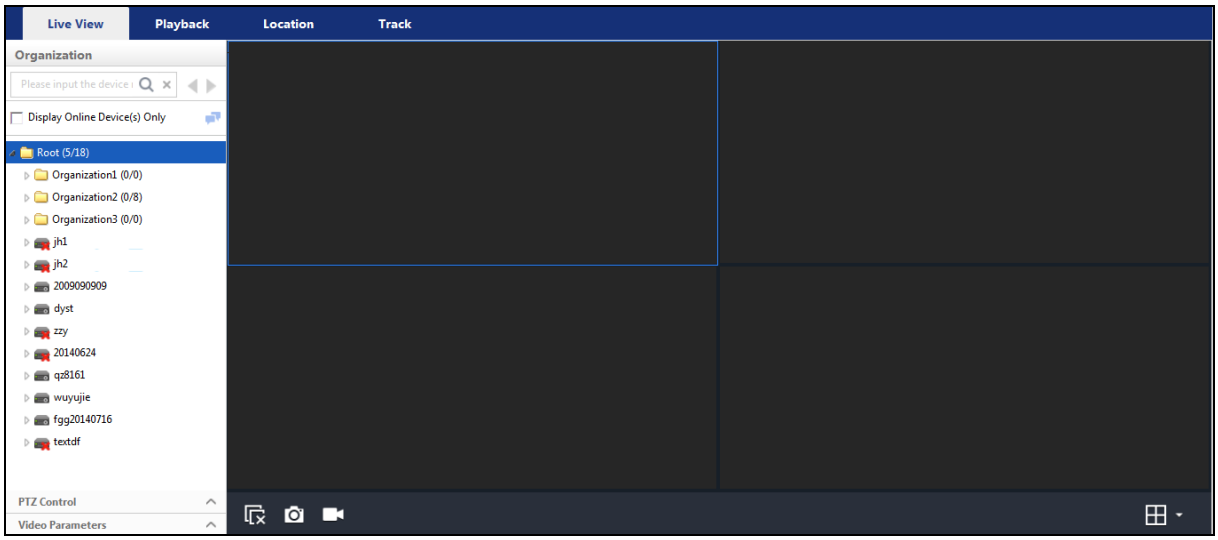

Figure 4. 2 Live View

Figure 4. 3 Live View Toolbar

On the Live View interface, the following toolbar buttons are available:

	Stop All Previews	Stop the live view of all the cameras.
	Capture All	Capture pictures of all the cameras in the live view process.
	Start / Stop All Recording	Start / Stop the recording of all the cameras.
	Window-division Mode	1 / 4 / 9 / 16-division screen layout modes are selectable.

4.1.1 Starting / Stopping Live View

Steps:

1. Select the screen layout mode for live view.
   4 types of screen layout modes are selectable: 1-division, 4-division, 9-division and 16-division.
2. Double-click the camera name in the resource tree on the left-side to start the live view.
   The camera icon changes from to .
3. Optionally, you can double-click on the display window to enlarge the window for better view.
4. To stop the live view, double-click the camera name in live view;
   Or click the icon in the toolbar to stop the live view of all cameras.

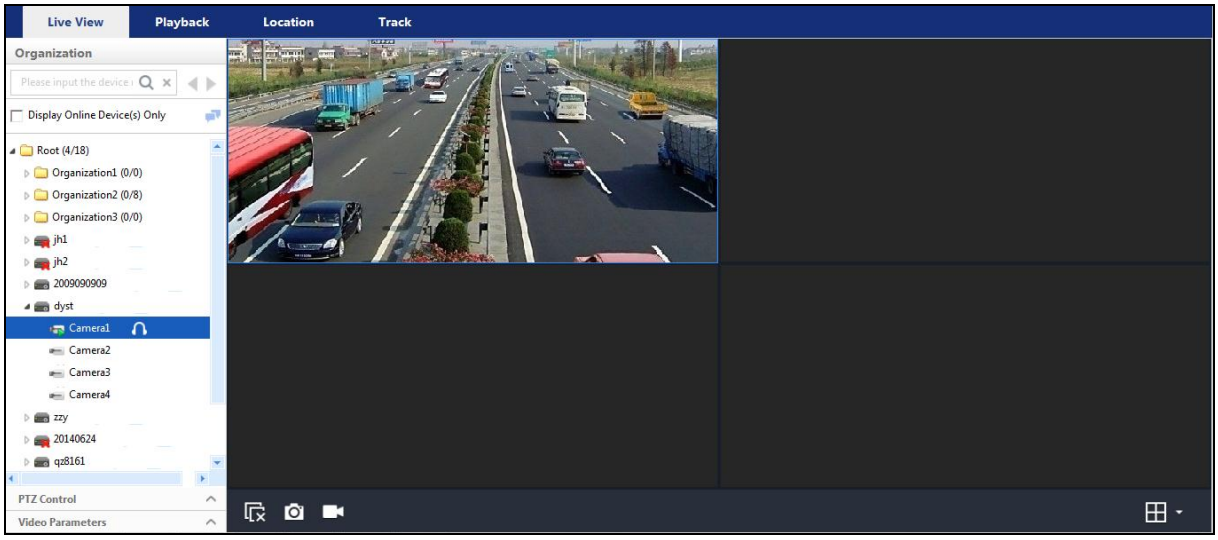

Figure 4. 4 Live View

Move the mouse to the live view window, the toolbar of the live view window pops up at the bottom:

Figure 4. 5 Toolbar of Live View Window

	Capture	Capture pictures of the current camera in the live view process.
	Start / Stop Recording	Start / Stop the recording of the current camera.
	Enable / Disable Audio	Click to enable / disable the audio of the current camera.
	More	Configure more settings, including the PTZ control, video information display, video rotation mode and scene proportions.

NOTE

It is required that the user should run the web browser as the administrator to do operations relating

to the file saving path, such as capturing the pictures, recording the video files, etc.

4.1.2 Capturing Pictures in Live View

Steps:

1. Start the live view of the cameras.
2. Click the Capture All icon in the live view toolbar to capture the pictures of all live view cameras;
   Or click the Capture icon at the bottom of the live view window to capture the pictures of the current live view camera.
3. The captured pictures are stored under the saving path of *C:\EHomeAllFiles\PreviewPic* by default.
   You can modify the saving path on the Local Configuration interface if needed. For details, see *Section 2.4 Local Configuration*.

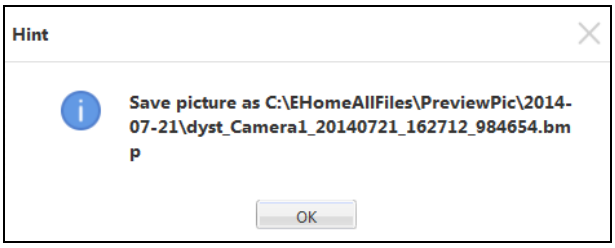

Figure 4. 6 Capture Pictures in Live View

4.1.3 Starting / Stopping the Recording

Steps:

1. Start the live view of the cameras.
2. Click the Start All Recording icon in the live view toolbar to record the video of all live view cameras;
   Or click the Record icon at the bottom of the live view window to record the video of the current live view camera.
3. To stop the recording, click in the live view toolbar or at the bottom of the live view window.
4. The recordings are stored under the saving path of *C:\EHomeAllFiles\Record* by default.
   You can modify the saving path on the Local Configuration interface if needed. For details, see *Section 2.4 Local Configuration*.

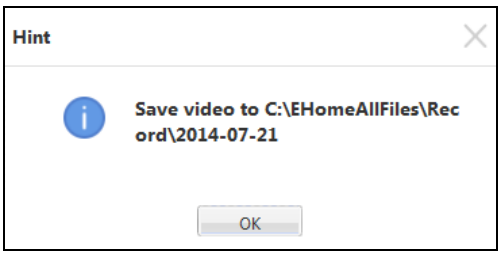

Figure 4. 7 Start / Stop Recording

4.1.4 Enabling / Disabling Two-way Audio

Steps:

1. Move the mouse to the device name in the resource tree on the left-side.
2. Click the icon to start the two-way audio between device and platform.
   The device icon turns from to .
3. To stop the two-way audio, click the icon again.

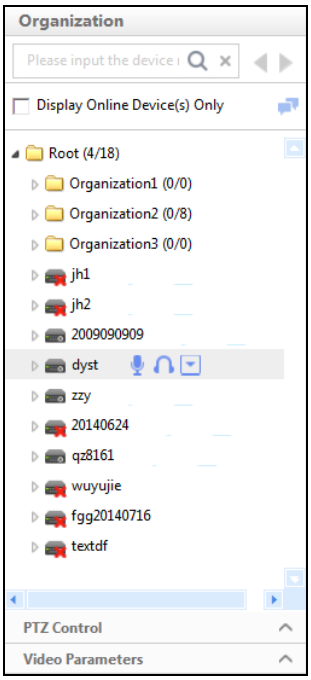

Figure 4. 8 Enable / Disable Two-way Audio

4.1.5 Enabling / Disabling Audio Monitoring

Purpose:

You can monitor the audio of the online devices via the microphone or sound pickup.

Enabling / Disabling Audio Monitoring via Microphone

Steps:

1. Move the mouse to the device name in the resource tree on the left-side.
2. Click the icon to enable the microphone audio monitoring of the device.
   The device icon turns from to .
3. To stop the microphone audio monitoring, click the icon again.

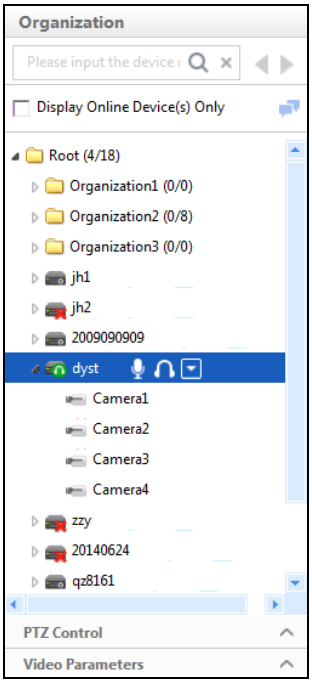

Figure 4. 9 Enable Audio Monitoring via Microphone

Enabling / Disabling Audio Monitoring via Sound Pickup

Steps:

1. Move the mouse to the camera name in the resource tree on the left-side.
2. Click the icon to enable the sound pickup audio monitoring of the camera.
   The camera icon turns from to .
   To stop the sound pickup audio monitoring, click the icon again.

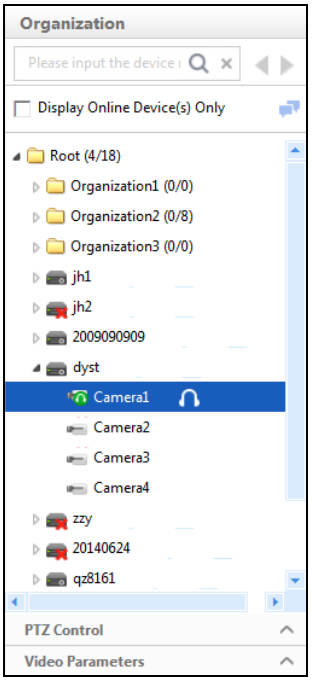

Figure 4. 10 Enable Audio Monitoring via Sound Pickup

NOTE

- The audio monitoring function cannot be enabled during live view.
- Starting live view or two-way audio will stop the current audio monitoring process.
- You can monitor the microphone audio of one device via multiple platforms; or monitor the sound pickup audio of one camera via multiple platforms.

4.1.6 Sending Messages

Purpose:

You can send messages from the platform to the device.

Steps:

1. Move the mouse to the device name in the resource tree on the left-side.
2. Click the icon and select **Send Message** to open the Send Message dialog box.
3. Input the content in the text field.
4. Optionally, you can check the checkbox of Voice to enable the voice broadcast function.
5. Click the **Send** button to send the message to the selected device.

   You can also click the icon in the upper-right corner of the resource tree area, and then send a mass message to the selected devices.

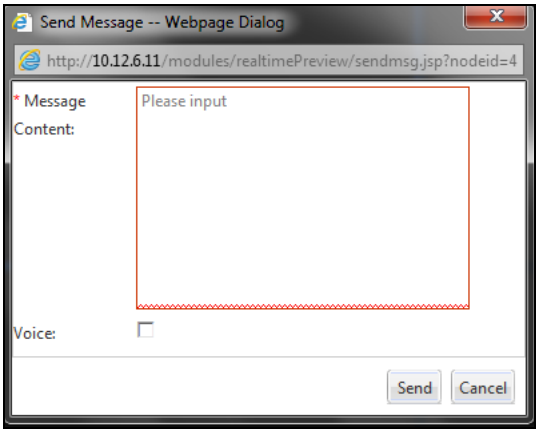

Figure 4. 11 Send the Message

4.1.7 Viewing Device Information

Purpose:

You can view the device information, including the HDD status, recording status, video signal, etc.

Steps:

1. Move the mouse to the device name in the resource tree on the left-side.
2. Click the icon and select **Device Info** to open the Device Information message box.

   You can view the device status, CPU usage, memory usage, local display status, alarm input / output status, HDD status, recording status and video signal status.

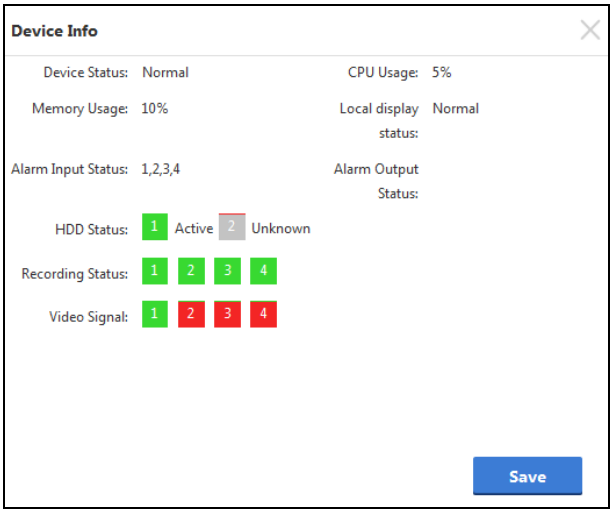

Figure 4. 12 View Device Information

4.1.8 PTZ Control

Purpose:

iVMS-7200 provides PTZ control for cameras with pan/tilt/zoom functionality. You can set and call the preset for the cameras on the PTZ Control panel. And you can also open window PTZ control for the operations of PTZ cameras.

Click the icon to expand the PTZ Control Panel.

Figure 4. 13 PTZ Control

The following buttons are available on the PTZ Control panel:

Zoom In / Zoom Out

Focus Far / Focus Near

Iris Open / Iris Close

Open / Close the Light

Open / Close the wiper

Start / Stop auto scanning

You can use the direction buttons to steer the camera to the desired view.

You can also move the slider on the bar to adjust the value of scanning speed.

Configuring the Preset

A preset is a predefined image position which contains information of pan, tilt, focus and other parameters.

Perform the following steps to add a preset:

Steps:

1. Click the direction buttons on the PTZ control panel to steer the camera to the desired view.
2. Input a preset number in the text field on the PTZ control panel.
3. Click the **Set** button to set the preset.

Calling the Preset

Steps:

1. Input the preset number in the text filed on the PTZ control panel.
2. Click the **Call** button to call the pre-defined preset.

4.1.9 Video Parameters Settings

Purpose:

The video parameters, including the brightness, contrast, saturation and hue, can be configured to create better visual effects.

Steps:

1. Click the icon to expand the Video Parameters Settings page.
2. Move the slider to adjust the brightness, contrast, saturation or hue of the live video.
3. Click the **Default Value** button, and you can restore the defaults of the video parameters.

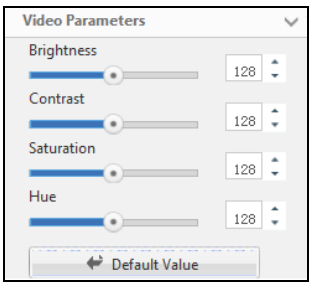

Figure 4. 14 Video Parameters Settings

4.1.10 Remote Configuration

Purpose:

The parameters of the online devices, such as the network information, channel information, serial port parameters, etc., can be configured. You can also upgrade and reboot the devices remotely.

Move the mouse to the device name in the resource tree, click the icon and select **Remote Config** to open the Remote Configuration page.

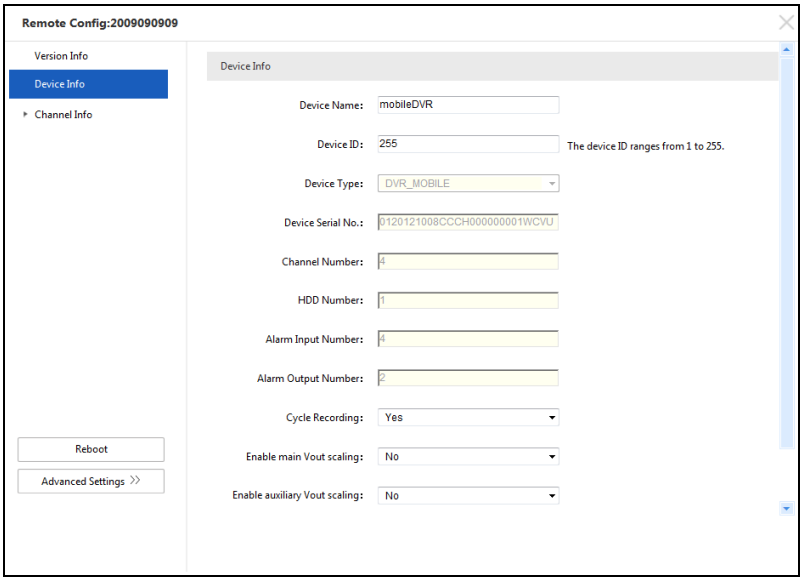

Figure 4. 15 Remote Configuration-Basic Settings

Click the **Reboot** button, and you can reboot the device remotely.

Click the **Advanced Settings** button in the lower-left corner and all the remote configuration parameters will be displayed.

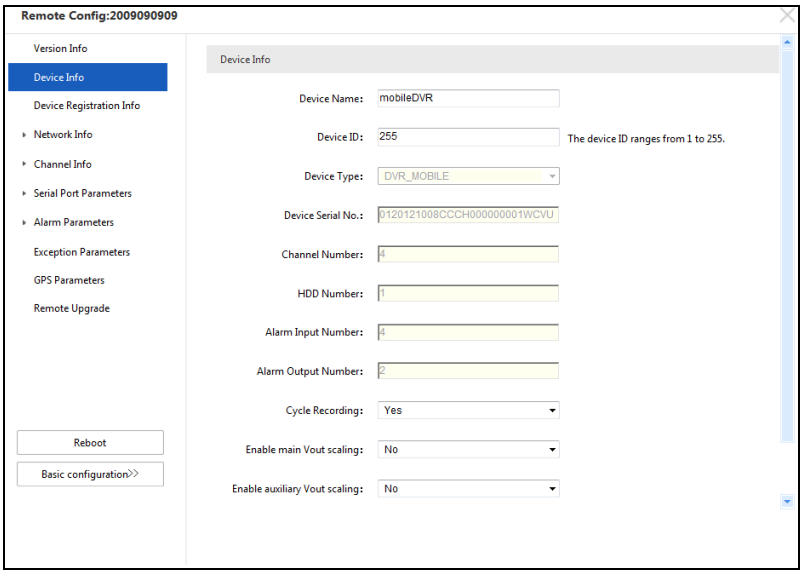

Figure 4. 16 Remote Configuration-Advanced Settings

Parameters	Descriptions
Version Info	Firmware version, encoding version, panel version and hardware version.
Device Info	Device name, device ID, HDD number, alarm input/output number, cycle recording settings, video out scaling, etc.
Network Info	Device IP address, port number, DDNS settings, etc.
Channel Info	Display settings, video settings, record schedule settings, motion detection settings, capturing schedule settings, etc.
Serial Port Parameters	RS-232 and RS-485 settings
Alarm Parameters	Alarm input and output settings.
Exception Parameters	Exception type and the linkage action settings.

Remote Upgrade	Upgrade the device remotely.
Reboot	Reboot the device remotely.

NOTE

The Device Registration Info and GPS Parameters are invalid if the device is added via the IP address.

Viewing Version Info

Click the **Version Info** tab, and you can view the version information of the device, including firmware version, encoding version, panel version and hardware version.

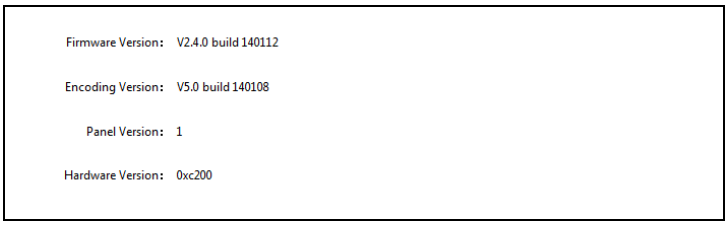

Figure 4. 17 View Version Information

Viewing Device Info

Steps:

1. Click the **Device Info** tab, and you can view the basic information of the device, including the device name, device ID (for remote control), device type, device serial No., etc.
2. Select Yes / No from the drop-down list to enable / disable the cycle recording of the device.
   If the cycle recording of device is enabled, the record files will be overwritten when the HDD becomes full. Otherwise, the recording will stop when the HDD becomes full.
3. Select Yes / No from the drop-down list to enable / disable the main video out scaling and auxiliary video output scaling.
4. Click **Save** the save the new settings.

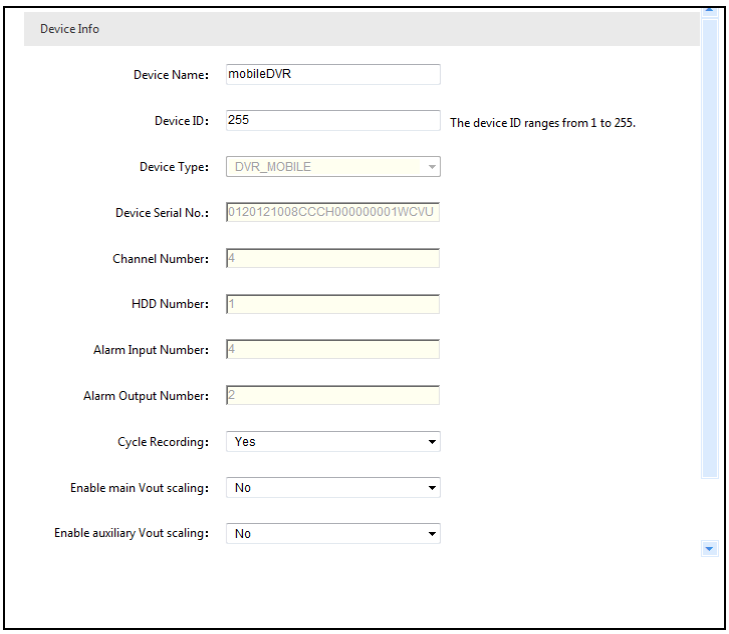

Figure 4. 18 View Device Information

Viewing Registration Info

Steps:

1. Click the **Device Registration Info** tab, and you can view the device registration information, including the central server IP address, central server port No., and registered device ID.
2. Modify the registration parameters if needed, and click **Save** the save the new settings.

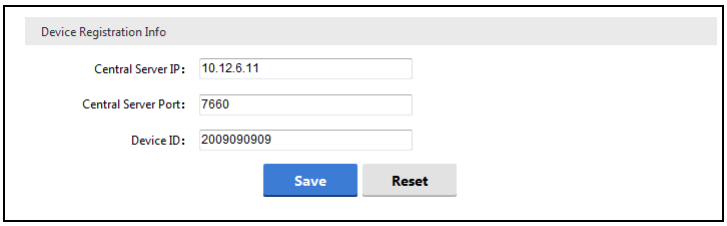

Figure 4. 19 View Registration Information

Configuring Network Settings

Steps:

1. Click the **Network Settings** tab under the Network Info title.
2. Configure the basic network parameters of device, including the NIC type, device IP address, device port., subnet mask, gateway, multicast address and HTTP Port.
3. Configure the advanced network parameters of device, including DNS server IP address, alarm host settings, IP server settings, etc.
   - **DNS1 / DNS2 Server IP Address:** IP address of preferred / alternate DNS server.
   - **Alarm Host:** With a remote alarm host configured, the device will send the alarm event or exception message to the host when an alarm is triggered. The Alarm Host IP refers to the IP address of the remote PC on which the CMS (Client Management System) software (e.g., iVMS-4200) is installed, and the Alarm Host Port must be the same as the alarm monitoring port configured in the software.
   - **IP Resolver Address:** IP address of IP server.
4. Click **Save** to save the new settings.

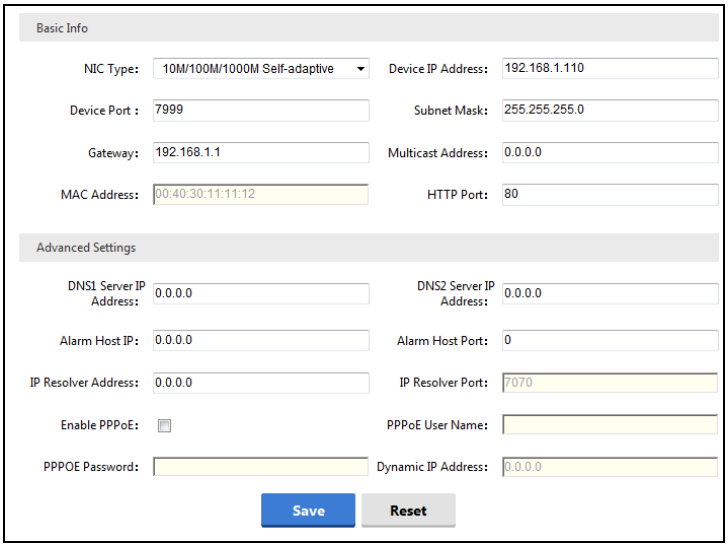

Figure 4. 20 Configuring Network Settings

DDNS and NTP are reserved for the system.

Configuring Display Settings

Steps:

1. Click the **Display Settings** tab under the Channel Info title.
2. Select the channel from the drop-down list.
3. Configure the display settings of channel name.
   1) Check the checkbox of **Display Name** to display the channel name on the video image.
   2) Input the channel name in the text field as desired.
   3) Set the X-coordinate and Y-coordinate to locate the channel name on the video image.
4. Configure the display settings of OSD (On Screen Display) information.
   1) Check the checkbox of **OSD** to display the OSD information on the video image.
   2) Set the X-coordinate and Y-coordinate to locate the OSD on the video image.
   3) Select the OSD type from the drop-down list to set the display format of the OSD.
   4) Select the display status for the OSD.
5. Select Yes / No to enable / disable the week information display.
6. Optionally, you can click **Copy to channel** to copy the current settings to the other channels.
7. Click **Save** to save the new settings.

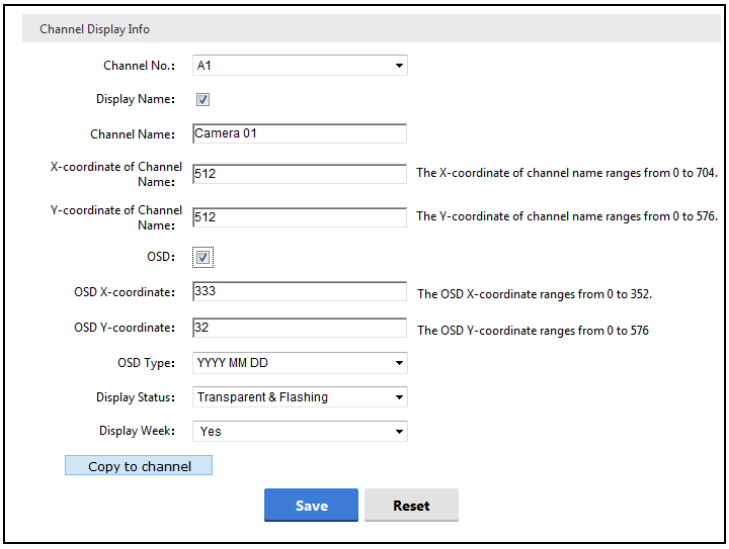

Figure 4. 21 Configure Display Settings

Configuring Video Settings

Steps:

1. Click the **Video Settings** tab under the Channel Info title.
2. Select the channel from the drop-down list.
3. Set the video parameters for the selected channel, including the stream category, stream type, resolution, image quality, etc.
4. Optionally, you can click **Copy to channel** to copy the current settings to the other channels.
5. Click **Save** to save the new settings.

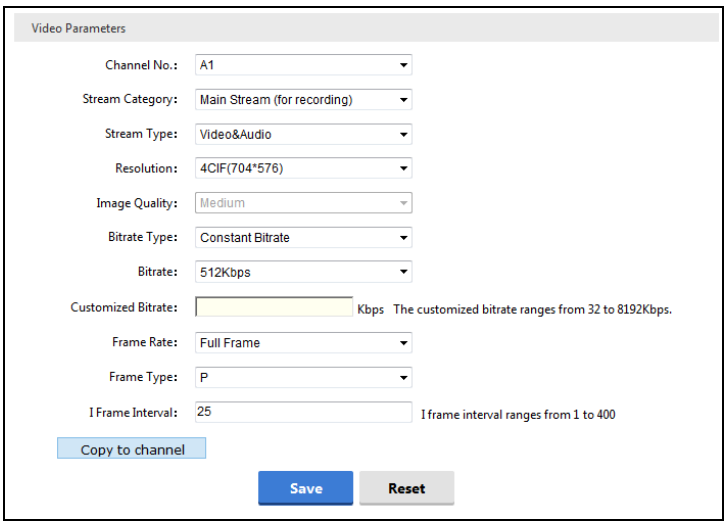

Figure 4. 22 Configure Video Settings

Configuring Record Schedule

Steps:

1. Click the **Record Schedule** tab under the Channel Info title.
2. Select the channel from the drop-down list.
3. Check the checkbox of **Enable Record** to enable the recording function of the channel.
4. Configure the recording parameters, including video expired time, pre-record, post-record, redundant record and audio record.
   - **Video Expired Time:** The time for keeping the record files in the HDDs, once exceeded, the files will be deleted. The files will be saved permanently if the value is set as 0. The actual keeping time for the files should be determined by the capacity of the HDDs.
   - **Pre-record:** The time you set to record before the scheduled time or event. For example, when an alarm triggered the recording at 10:00, if you set the pre-record time as 5 seconds, the camera records it at 9:59:55.
   - **Post-record:** The time you set to record after the event or the scheduled time. For example, when an alarm triggered the recording ends at 11:00, if you set the post-record time as 5 seconds, it records till 11:00:05.
   - **Redundant Record:** Save the video files not only in the R/W HDD but also in the redundant HDD.
   - **Audio Record:** Select Yes / No to record the video with / without the audio.
5. Configure the schedule template for recording.
   1) Select the day from the drop-down list.
   2) Select All-day Record and then select the recording type from the drop-down list.
   3) Select Record by Time, set the start / end time and select the record type, you can also customize the time segment for recording in a day.
6. Optionally, you can click **Copy to week** to copy the current record schedule settings to the other days in the week.
7. Optionally, you can click **Copy to channel** to copy the current settings to the other channels.
8. Click **Save** to save the new settings.

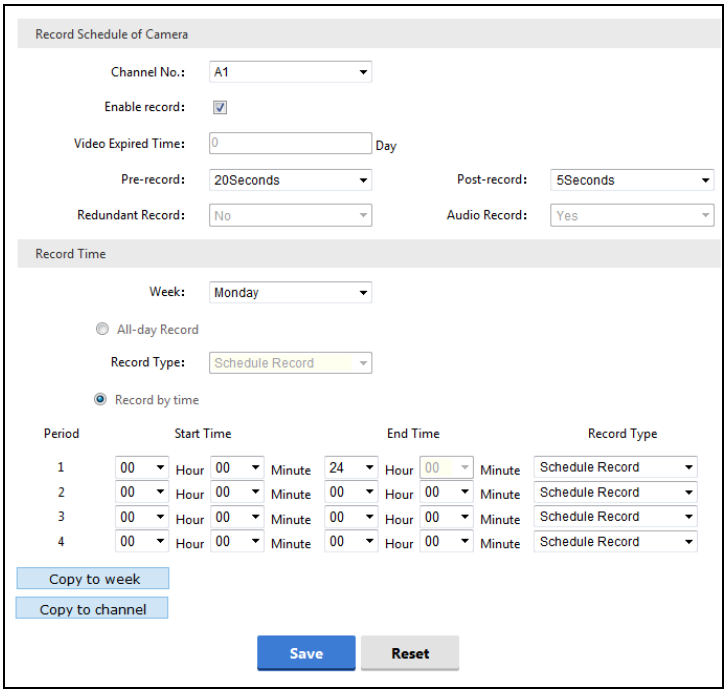

Figure 4. 23 Configure Record Schedule

Configuring Motion Detection Alarm

Steps:

1. Click the **Motion Detection** tab under the Channel Info title.
2. Select the channel from the drop-down list.
3. Check the checkbox to enable the motion detection function.
4. Click the **Set Area** tab, click **Start drawing**, and then click-and-drag the mouse to draw a defined area for motion detection. You can click **Clear all** to clear all the defined areas.
5. Set the motion detection sensitivity. The larger the value is, the more sensitive the detection is.
6. Set the video streaming type as Real-time Priority or Fluency Priority.
7. Click the **Arming Schedule** tab, and configure the arming schedule for motion detection.
8. Click the **Linkage Action** tab, and check the checkboxes to activate the linkage actions.
9. Optionally, you can click **Reset** to restore the original parameters if needed.
10. Click **Save** to save the settings.

Figure 4. 24 Configure Motion Detection Alarm

Configuring Video Loss Alarm

Steps:

1. Click the **Video Loss** tab under the Channel Info title.
2. Select the channel from the drop-down list.
3. Check the checkbox to enable the video loss alarm.
4. Click the **Arming Schedule** tab, and configure the arming schedule for video loss alarm.
5. Click the **Linkage Action** tab, and check the checkboxes to activate the linkage actions.
6. Optionally, you can click **Reset** to restore the original parameters if needed.
7. Click **Save** to save the settings.

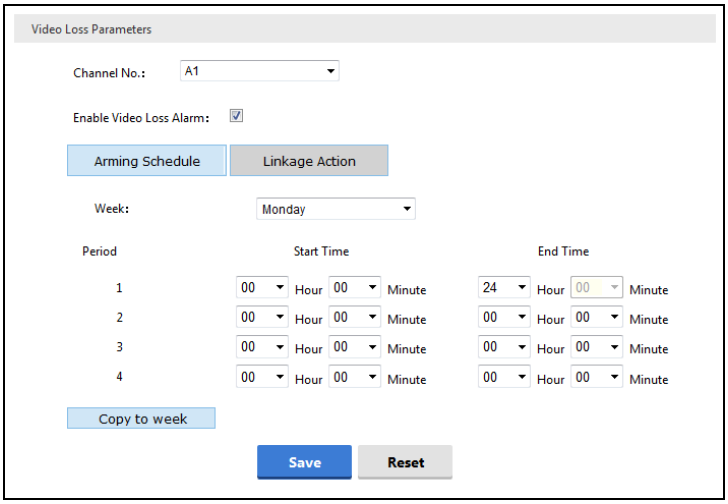

Figure 4. 25 Configure Video Loss Alarm

Configuring Video Tampering

The privacy mask can be defined on the video image to protect the individual privacy if needed.

Steps:

1. Click the **Video Tampering** tab under the Channel Info title.
2. Select the channel from the drop-down list.
3. Check the checkbox to enable the privacy mask function.
4. Click **Start drawing**, and then click-and-drag the mouse to draw a privacy mask. You can click **Clear all** to clear the defined masks.
5. Set the video streaming type as Real-time Priority or Fluency Priority.
6. Optionally, you can click **Reset** to restore the original parameters if needed.
7. Click **Save** to save the settings.

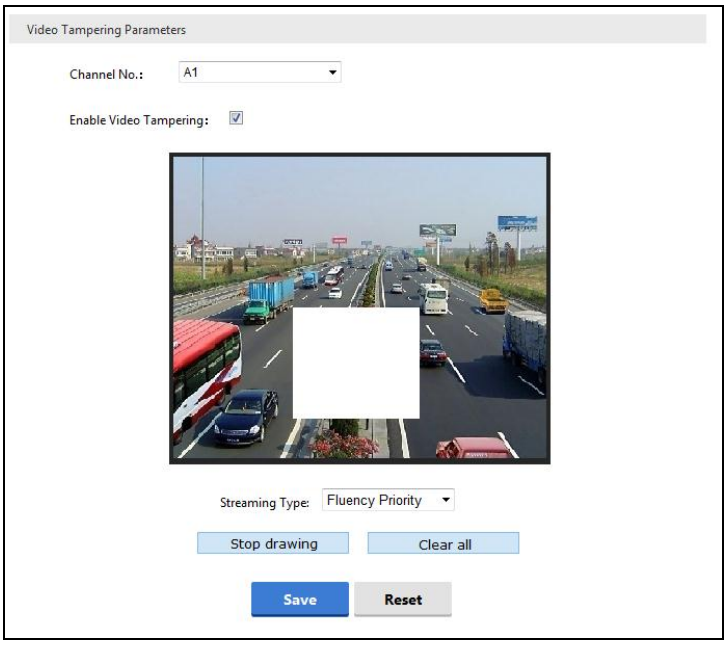

Figure 4. 26 Configure Video Tampering

Configuring Tampering Alarm

A tampering alarm is triggered when the camera is covered and the monitoring area cannot be viewed. The linkage actions, including alarm output and client action can be set.

Steps:

1. Click the **Tampering Alarm** tab under the Channel Info title.
2. Select the channel from the drop-down list.
3. Check the checkbox to enable the tampering alarm.
4. Click the **Set Area** tab, click **Start drawing**, and then click-and-drag the mouse to draw a defined area for tampering detection. You can click **Clear all** to clear all the defined areas.
5. Set the tamper-proof sensitivity.
6. Set the video streaming type as Real-time Priority or Fluency Priority.
7. Click the **Arming Schedule** tab, and configure the arming schedule for tampering alarm.
8. Click the **Linkage Action** tab, and check the checkboxes to activate the linkage actions
9. Optionally, you can click **Reset** to restore the original parameters if needed.
10. Click **Save** to save the settings.

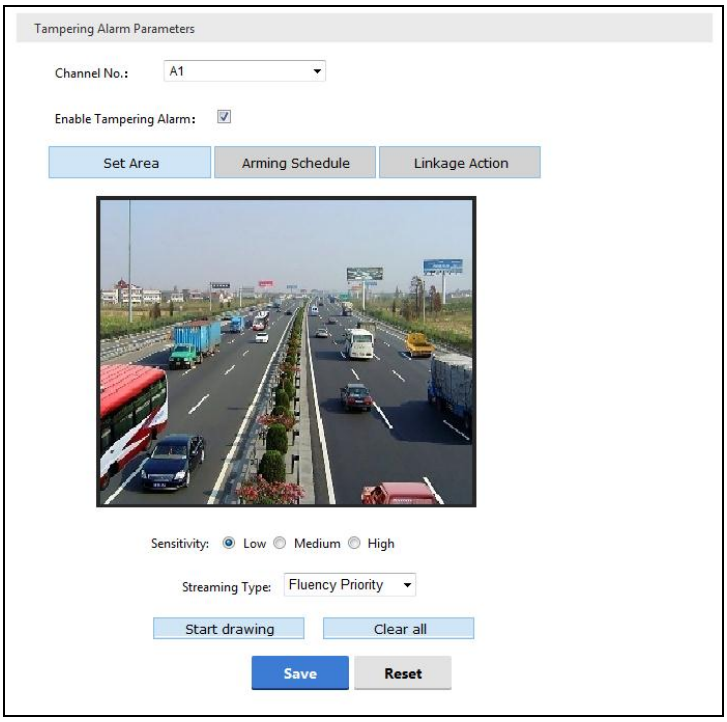

Figure 4. 27 Configure Tampering Alarm

Configuring Text Overlay

Some character strings can be edited and displayed on the screen. This function requires the support of device.

Steps:

1. Click the **Text Overlay** tab under the Channel Info title.
2. Select the channel from the drop-down list.
3. Set the video streaming type as Real-time Priority or Fluency Priority.
4. Check the checkbox to enable the character string display.
5. Edit the content of the character string, and input the X/Y-coordinate to locate the string.
6. Optionally, you can click **Reset** to restore the original parameters if needed.
7. Click **Save** to save the settings.

NOTE

Up to 8 character strings can be set on the video image.

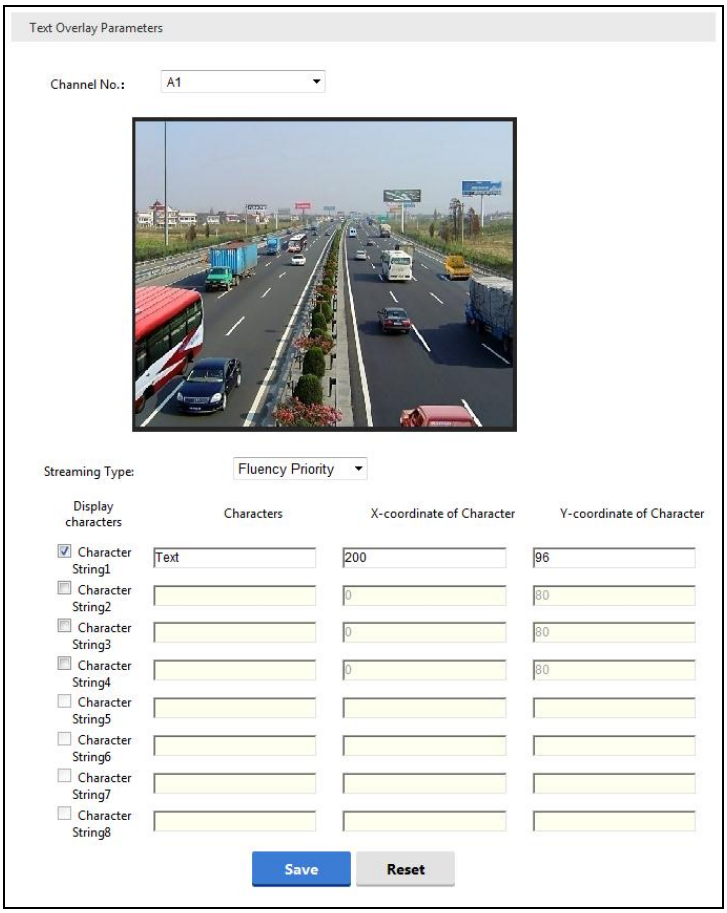

Figure 4. 28 Configure Text Overlay

Configuring Capturing Schedule

The capturing schedule can be set to capture pictures at the scheduled time point or in the scheduled time period. The captured pictures are stored on the central server and can be searched remotely.

Steps:

1. Click the **Capturing Schedule** tab under the Channel Info title.
2. Select the channel from the drop-down list.
3. Check the checkbox to enable the capturing schedule.
4. Set the capturing parameters, including the multi shots, capturing interval, resolution and image quality.
5. Set the capturing time. You can capture the pictures both at the scheduled time point and in the scheduled period.
6. Optionally, you can click **Copy to channel** to copy the settings to other channels.
7. Optionally, you can click **Reset** to restore the original parameters if needed.
8. Click **Save** to save the settings.

NOTE

The capturing schedule function requires the support of the device.

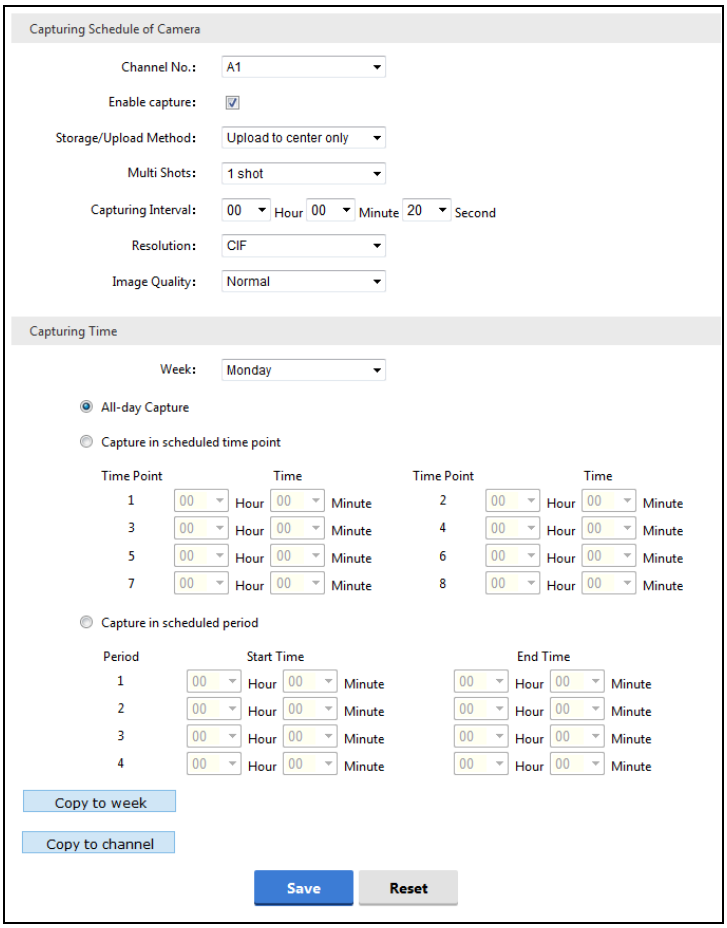

Figure 4. 29 Configure Capturing Schedule

Configuring GPS Parameters

Steps:

1. Click the **GPS Parameters** tab.
2. Set the uploading interval of the GPS information, and the limit value of overspeed alarm.
3. Click **Save** to save the settings.

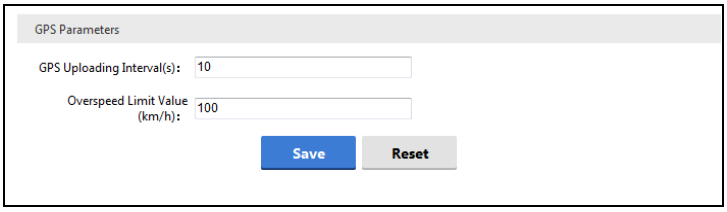

Figure 4. 30 Configure GPS Parameters

4.2 Playback

Purpose:

The recordings stored on the local DVR or the central storage device can be searched and played back remotely.

Click the icon on the Home Page,

or click the **Playback** tab on the Monitoring Subsystem page to enter the Playback interface.

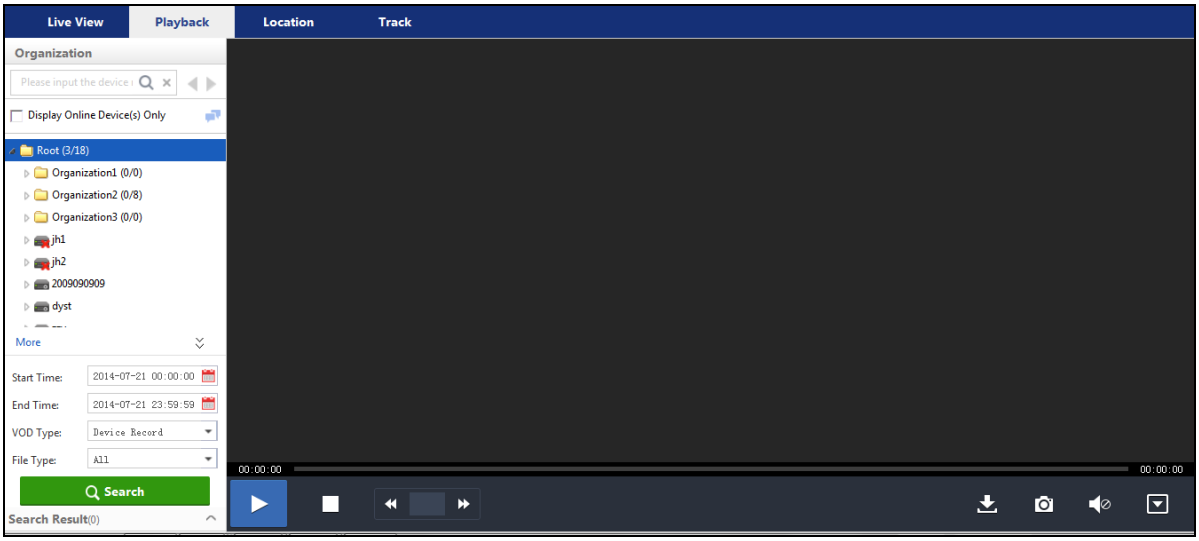

Figure 4. 31 Playback

Figure 4. 32 Playback Toolbar

On the Playback interface, the following toolbar buttons are available:

	Pause/Play	Pause / Resume the playback of record files.
	Stop All	Stop the playback of all cameras.
	Speed Down	Decrease the playback speed of the record files.
	Speed Up	Increase the playback speed of the record files.
	Download	Download the video clip.
	Capture	Capture pictures in the playback process.
	Open/Close Audio	Click to open/close the audio in playback and adjust the audio volume.
	More	Configure more settings, including the video rotation mode and scene proportions.

4.2.1 Searching Record Files

Steps:

1. Select the camera in the resource tree on the left-side for search.
2. You can click the More icon to view the calendar.
   If there are record files for that camera in that day, in the calendar, the icon for that day is displayed as 22. Otherwise it is displayed as 22.

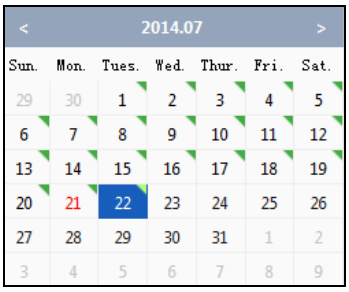

Figure 4. 33 Calendar

3. Click the icon to specify the start time and end time.
4. Select the VOD type from the drop-down list.
   You can search the record files stored on local DVR or central storage device.
5. Select the file type from the drop-down list.
   7 types of record files are selectable: scheduled recordings, recordings triggered by motion, recordings triggered by alarm, recordings triggered by motion or alarm, recordings triggered by motion and alarm, recordings triggered by command and manual recordings.
6. Click the **Search** button, and the record files will be displayed on the list.
   Move the mouse to the record file item, and you can view the start time, end time, file type and file size

NOTE

- The start time and end time for record files search should be within the same day.
- Up to 256 record files can be displayed on the list.

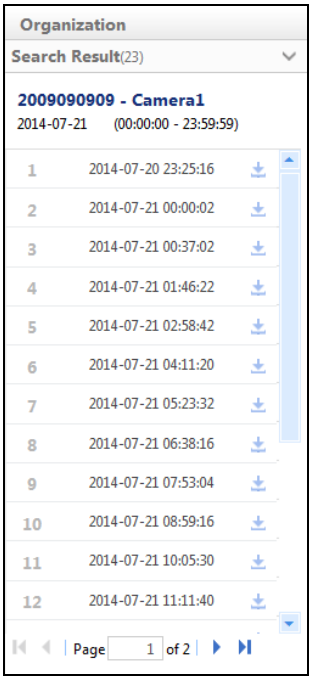

Figure 4. 34 Search Results of Record Files

4.2.2 Playing Back Record Files

1. Search the record files. For details, see *Section 4.2.1 Searching Record Files*.
2. Click the record file item on the list to play it back.
3. You can click the icon / in the playback toolbar to pause or resume the playback process.
4. To stop the playback, click the icon in the playback toolbar.

Figure 4. 35 Normal Playback

4.2.3 Capturing Pictures in Playback

Steps:

1. Start the playback of the camera.
2. Click the Capture icon in the playback toolbar to capture the pictures in playback;
3. The captured pictures are stored under the saving path of *C:\EHomeAllFiles\PlaybackPic* by default.
   You can modify the saving path on the Local Configuration interface if needed. For details, see *Section 2.4 Local Configuration*.

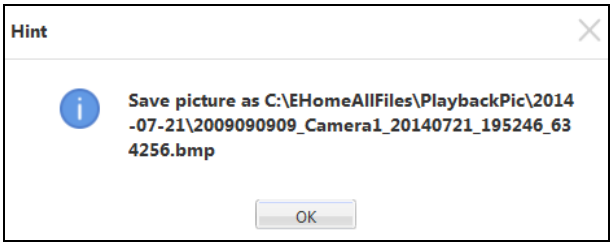

Figure 4. 36 Capture Pictures in Playback

4.2.4 Downloading Video Clips

Purpose:

You can download the video clips of the recordings for backup.

Steps:

1. Start the playback of the camera.
2. Click the icon in the playback toolbar to open the Download dialog box.
3. You can select **Download Whole Video** to download the whole current record file;
   You can also select **Download by Time**, and then set the start time and end time to download the specified record file segment.
4. Click the **Download** button to download the video clip.
5. The video clips are stored under the saving path of *C:\EHomeAllFiles\DownLoad* by default.

You can modify the saving path on the Local Configuration interface if needed. For details, see *Section 2.4 Local Configuration*.

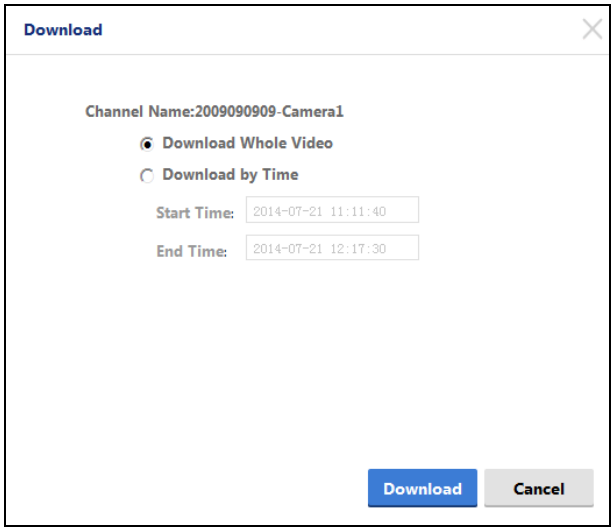

Figure 4. 37 Download Video Clips

4.3 Location

Purpose:

You can view the real-time location information of the devices on the E-map, including the longitude, latitude, direction angle, current speed, etc.

Click the icon on the Home Page,

or click the **Location** tab on the Monitoring Subsystem page to enter the Location interface.

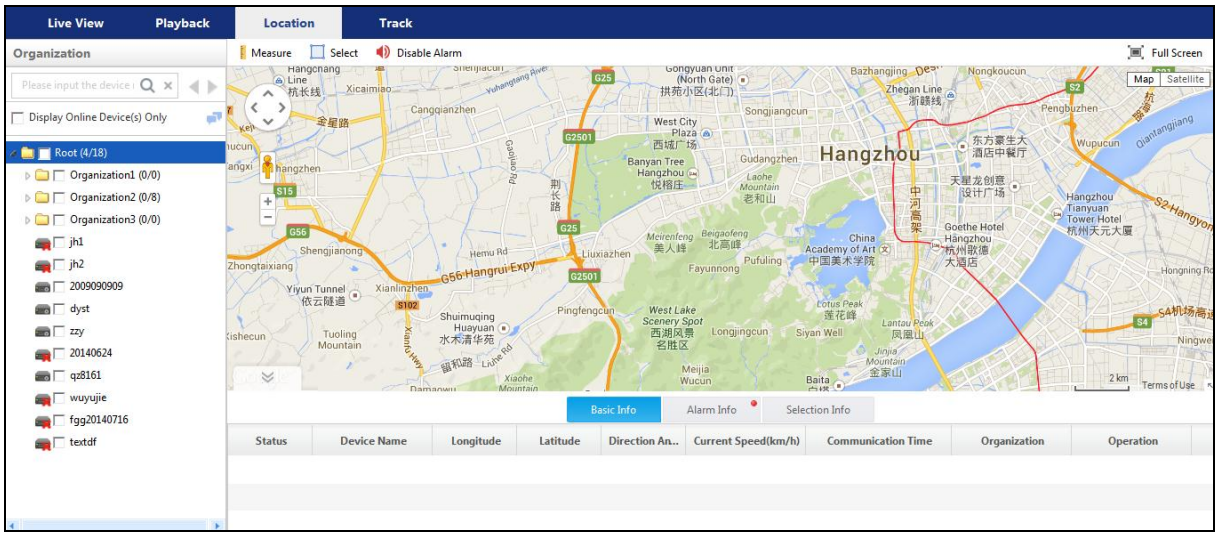

Figure 4. 38 Location

NOTE

You can select the normal 2D map or satellite map in the upper-right corner of the interface.

4.3.1 Measuring the Distance

Purpose:

You can measure the distance between two points on the E-map.

Steps:

1. Click the **Measure** button on the top of the E-map to enable the distance measurement function.
2. Click the mouse to specify the start point on the E-map.
3. Move the mouse to the next point and click the mouse again to fix it.
4. Repeat the step 2 until you reach the end point.
5. Right-click the mouse to complete the measurement.

   The distance between the start point and end point is displayed on the E-map.

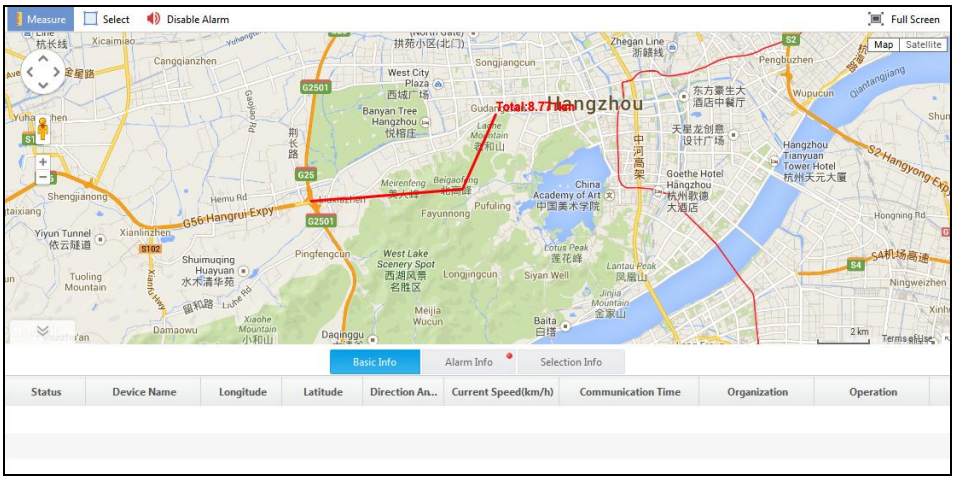

Figure 4. 39 Measure the Distance

4.3.2 Selecting the Area

Purpose:

You can select an area on the E-map and the information of the devices in the selected area will be displayed.

Steps:

1. Click the **Select** button on the top of the E-map to enable the device selection function.
2. Click the mouse to specify the key point 1 of the area.
3. Move the mouse and right-click on the E-map to specify the key point 2 of the area.

   The specified area is displayed on the E-map.

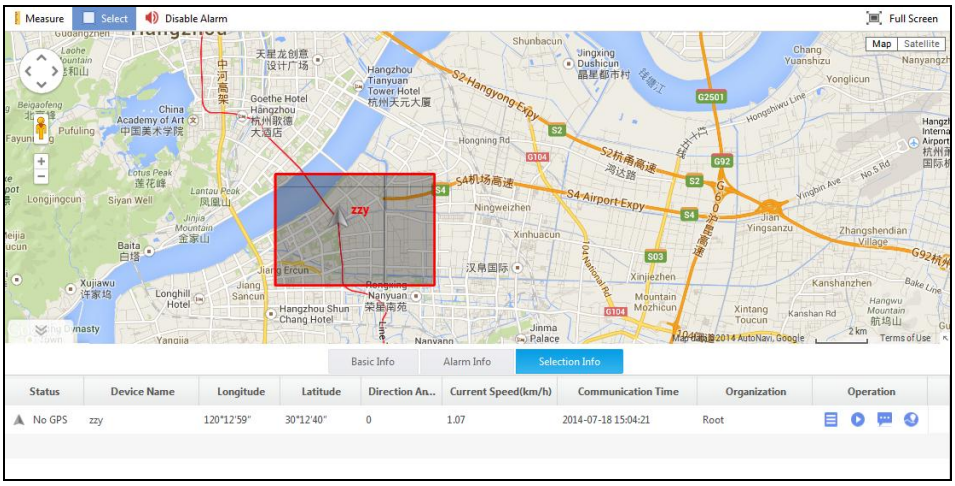

Figure 4. 40 Select the Device

4.3.3 Enabling / Disabling Audible Warning

Steps:

1. Click **Enable Alarm** on the top of the E-map to enable the audible alarm.
2. You can click **Disable Alarm** to disable the audible alarm.

4.3.4 Viewing the Devices

Purpose:

You can view the devices on the E-map, including the GPS information, detailed vehicle information, etc.

Steps:

1. Check the checkboxes to select the devices in the resource tree on the left-side.
   The selected devices will be marked as arrows of different colors on the E-map. You can click the arrow on the E-map, and view the details of the devices.
2. Click the **Basic Info** tab, and you can view the details of the selected devices, including the longitude, latitude, direction angle, etc.
3. Click the **Alarm Info** tab, and you can view the alarm information including the alarm time, alarm type, device details, etc. You can enable / Disable an audible warning for the alarm. For details, see *Section 4.3.3 Enabling / Disabling Audible Warning*.
4. Click the **Selection Info** tab, and you can view the details of the devices located in the specified area. For details of Setting the specified area, see S*ection 4.3.2 Selecting the Area*.

NOTE

Green arrow indicates the vehicle is running normally; yellow arrow indicates the vehicle speed is lower than 5Km/h; red arrow indicates device alarm occurs; grey arrow indicates the device is offline.

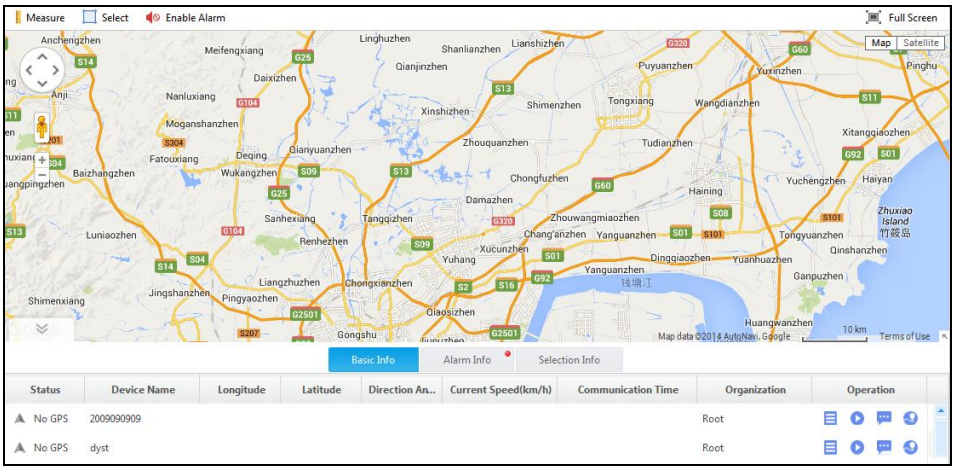

Figure 4. 41 View Device Information

When you view the device information on the Location interface, the following icons are available:

	Details	View the details of the device, including speed, online status, direction angle, etc.
	Video	Get the live video of the device.
	Message	Send messages to the device.
	Track	Click to Enable/Disable vehicle tracking. The track of the vehicle can be displayed on the E-map if vehicle tracking is enabled.

4.4 Track

Purpose:

The moving routes of the vehicles can be tracked and played back on the E-map.

Click the icon on the Home Page,

or click the **Track** tab on the Monitoring Subsystem page to enter the Track interface.

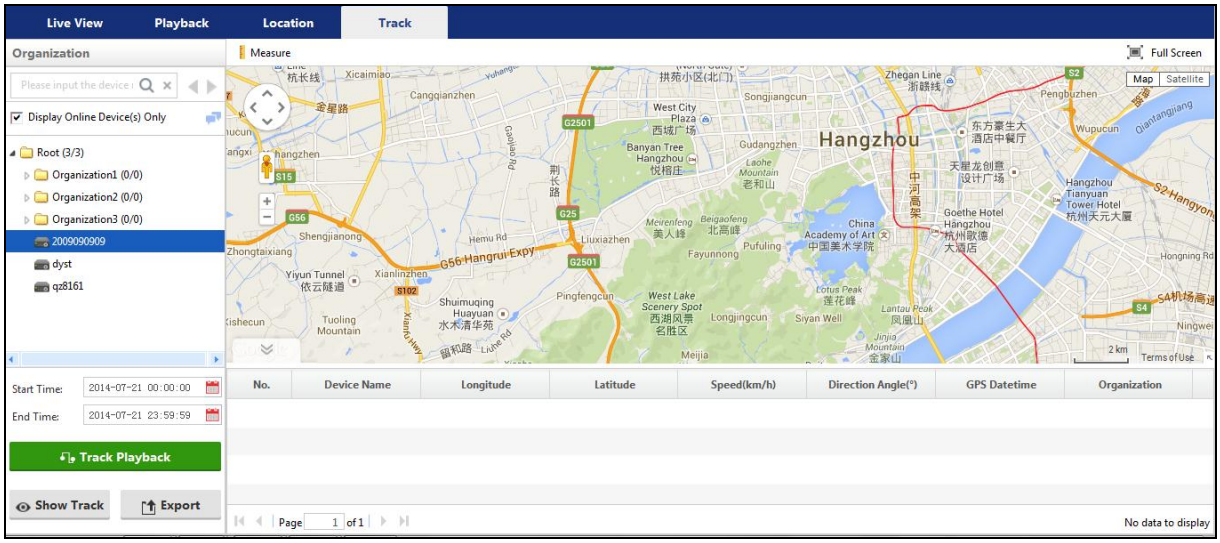

Figure 4. 42 Track

Steps:

1. Select the device in the resource tree on the left-side.
2. Click the icon to specify the start time and end time.
3. Click the **Track Playback** button to search the track of the vehicle and play it back.

You can view the real-time location information of the device on the E-map.

You can also view the details of the device at the bottom of the E-map, including the longitude, latitude, speed, direction angle, etc.

4. Select the playback speed from the drop-down list in the track playback toolbar.

   Slow, Normal and Fast are selectable.

5. Set the time interval to mark the track of the vehicle.

6. You can click the icon / in the track playback toolbar to pause / start the track playback.

7. To stop the track playback, click the icon .

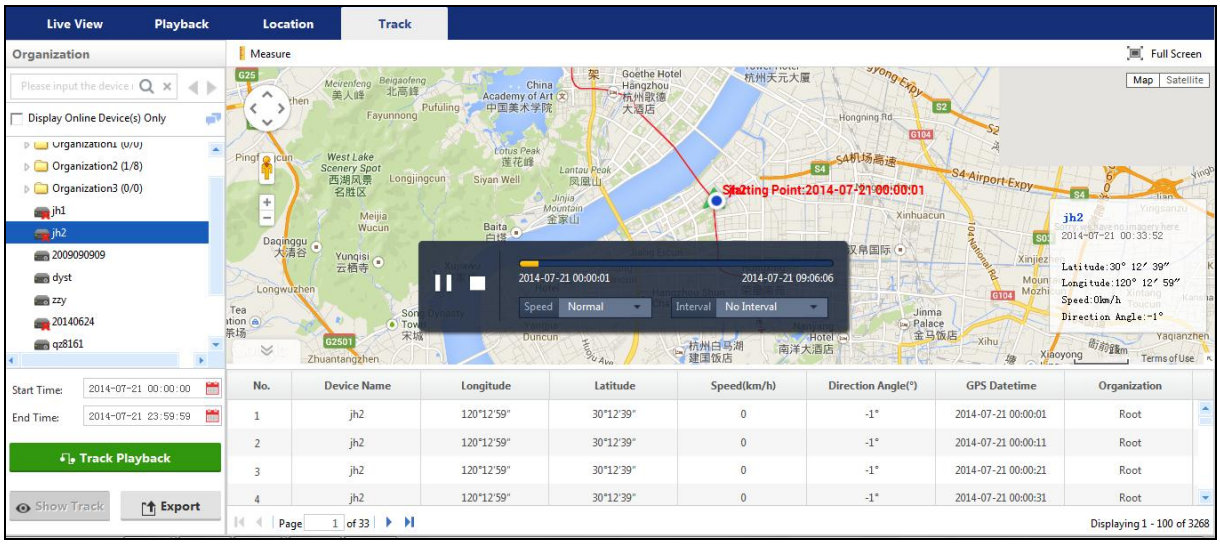

Figure 4. 43 Track Playback

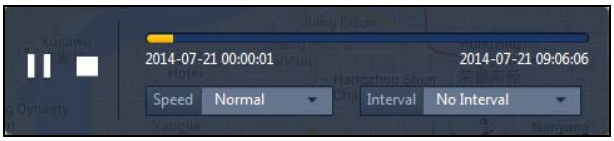

Figure 4. 44 Track Playback Toolbar

Chapter 5 Query Sub-system

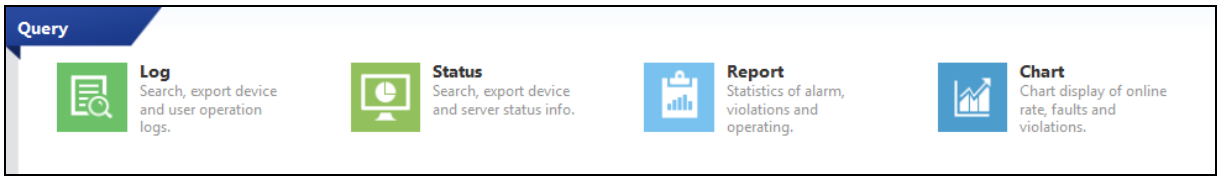

Figure 5. 1 Query Module

5.1 Log Search

Purpose:

The log files record the activities of the devices. You can view the detailed information of the activities, such as the operation time, the type, the operator, etc.

Click the icon on the Home Page,
or click the **Log** tab on the Query Subsystem page to enter the Log Search interface.

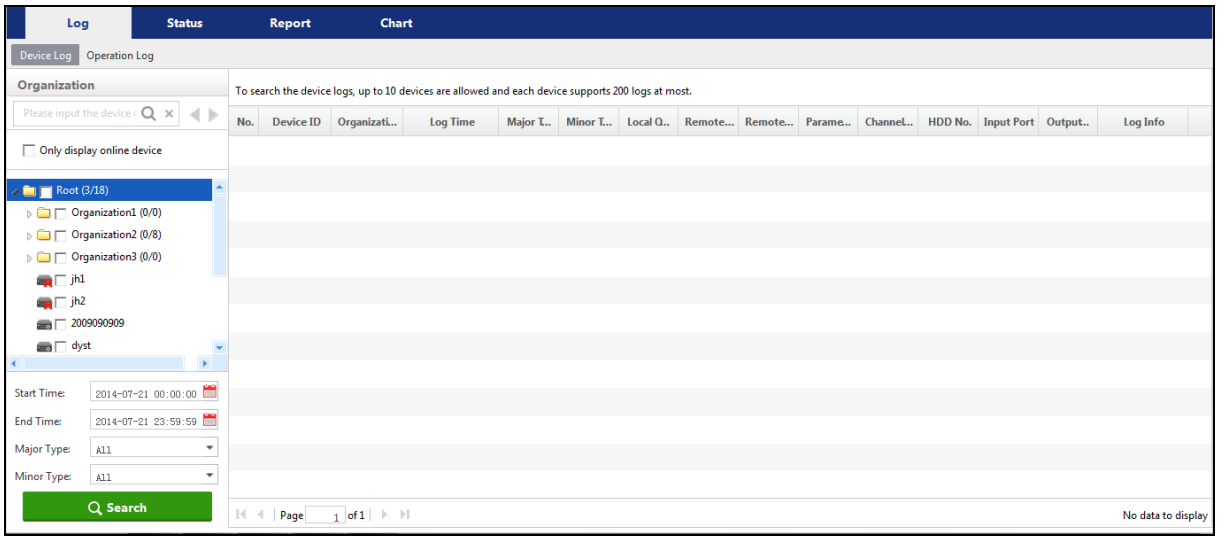

Figure 5. 2 Log Search

5.1.1 Searching Device Logs

Steps:

1. Click the **Device Log** tab to open the Device Log page.
2. Check the checkboxes to select the devices in the resource tree on the left-side.
3. Click the icon to specify the start time and end time.
4. Select the major type of logs from the drop-down list.
   6 major types of logs are selectable: Alarm, Exception, Operation, Info, Vehicle Status and All.
5. Select the minor type of the logs to narrow the search range.

6. Click **Search**. The log files of the selected devices will be displayed on different tab pages.
7. You can click **Export** in the upper-right corner to export the device log files on the current tab page in the format of *.xls.

- Up to 10 devices can be selected from the resource tree for log search.
- The start time and end time for device logs search should be within the same day.
- Up to 200 log files can be displayed on the list for each device.

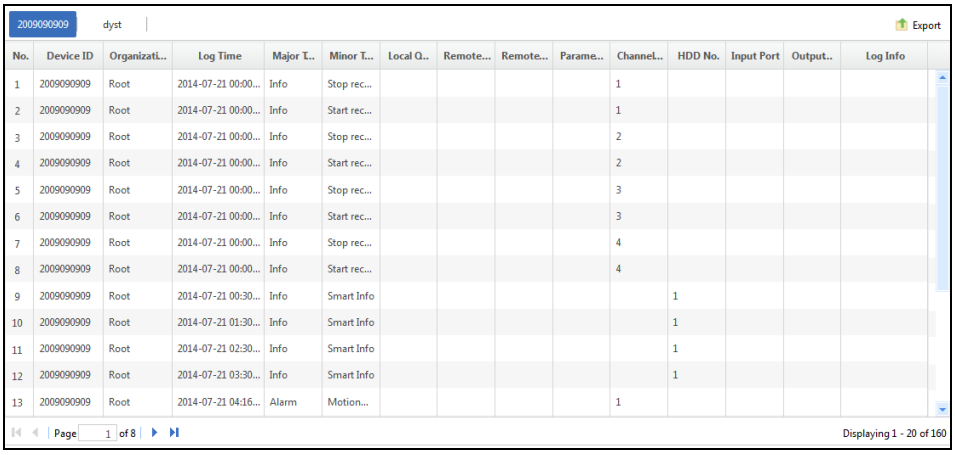

Figure 5. 3 Search Results of Device Logs

5.1.2 Searching Operation Logs

Steps:

1. Click the **Operation Log** tab to open the Operation Log page.
2. Check the checkboxes to select the users in the resource tree on the left-side.
3. Click the icon to specify the start time and end time.
4. Select the major type of logs from the drop-down list.
   6 major types of logs are selectable: Configuration module, Monitoring module, Query module, OA, Other and All.
5. Select the minor type of the logs to narrow the search range.
6. Click **Search**. The operation log files of the selected users will be displayed on the list.
7. You can click **Export** in the upper-left corner to export the operation log files in the format of *.xls.

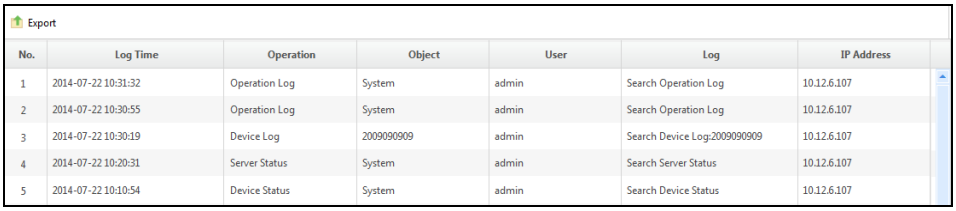

Figure 5. 4 Search Results of Operation Logs

5.2 System Status

Click the icon on the Home Page,

or click the **Status** tab on the Query Subsystem page to enter the System Status interface.

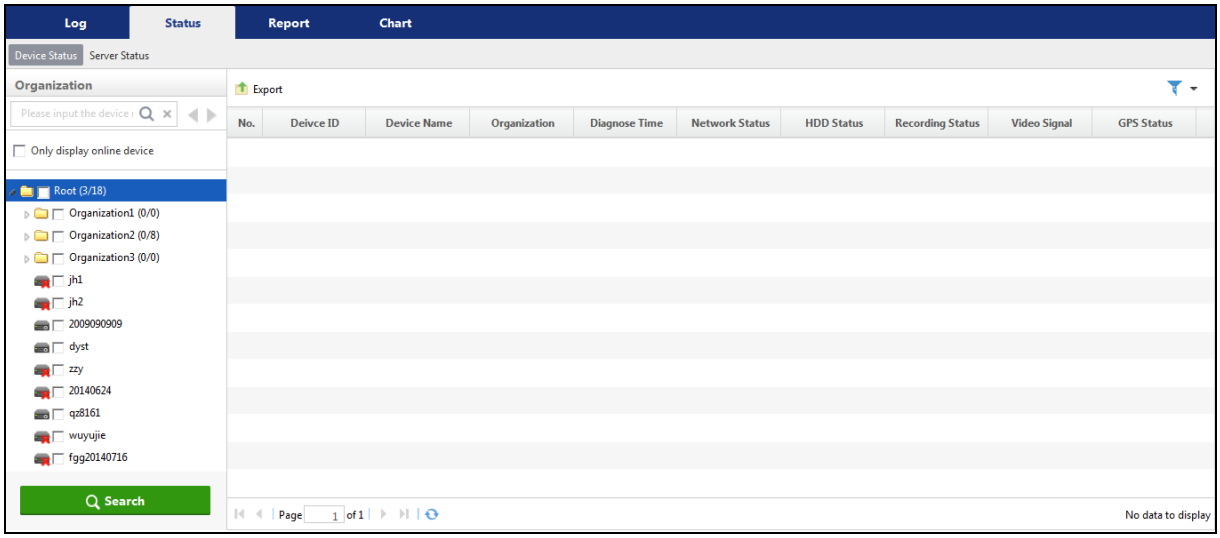

Figure 5. 5 System Status

5.2.1 Searching Device Status

Steps:

1. Click the **Device Status** tab to open the Device Status page.
2. Check the checkboxes to select the devices in the resource tree on the left-side.
3. Click **Search**. The status information of the selected devices will be displayed on the list, including the network status, HDD status, recording status, video signal status, GPS status, etc.
4. You can click **Export** to export the device status statistics file to the local PC in the format of *.xls.

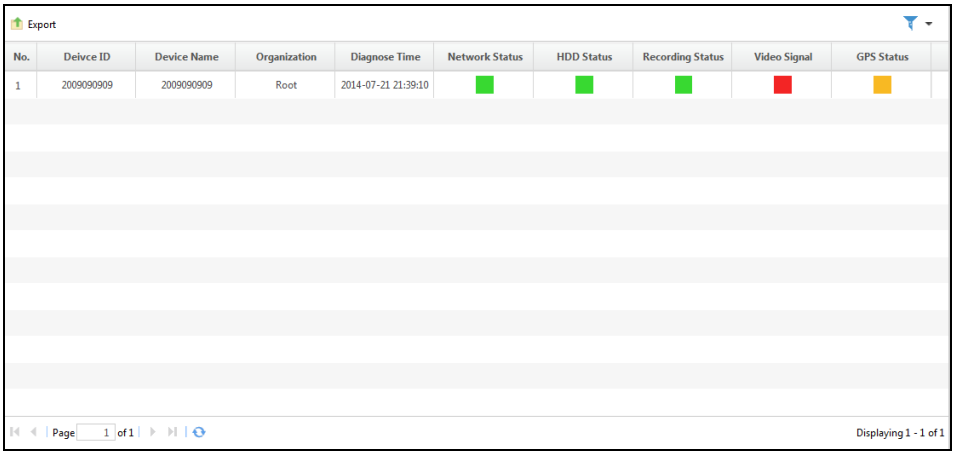

Figure 5. 6 Device Status

On the Device Status interface, the following icons are available:

	Network Status	HDD Status	Recording Status	Video Signal	GPS Status
	Online	Active	Recording	Normal	Online
	Offline	Sleeping	—	—	—
	—	Abnormal	Not Recording	Video Loss	—
	Unknown	Unknown	Unknown	Unknown	Offline

5.2.2 Searching Server Status

Steps:

1. Click the **Server Status** tab to open the Server Status page.
2. Check the checkboxes to select the servers in the resource tree on the left-side.
3. Click **Search**. The status information of the selected servers will be displayed on the list, including the CPU usage, memory usage, running time, etc.
4. You can click **Export** to export the server status statistics file to the local PC in the format of *.xls.

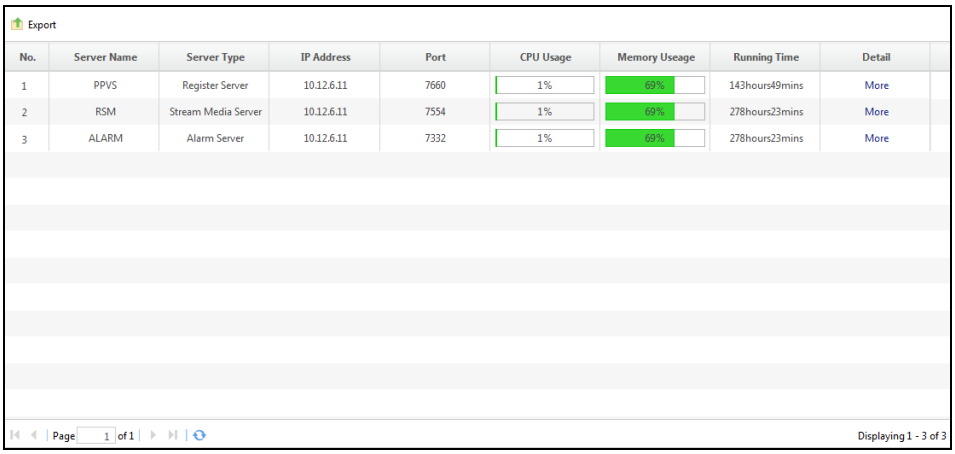

Figure 5. 7 Server Status

5.3 Statistics Report

Click the icon on the Home Page,
or click the **Report** tab on the Query Subsystem page to enter the Statistics Report interface.

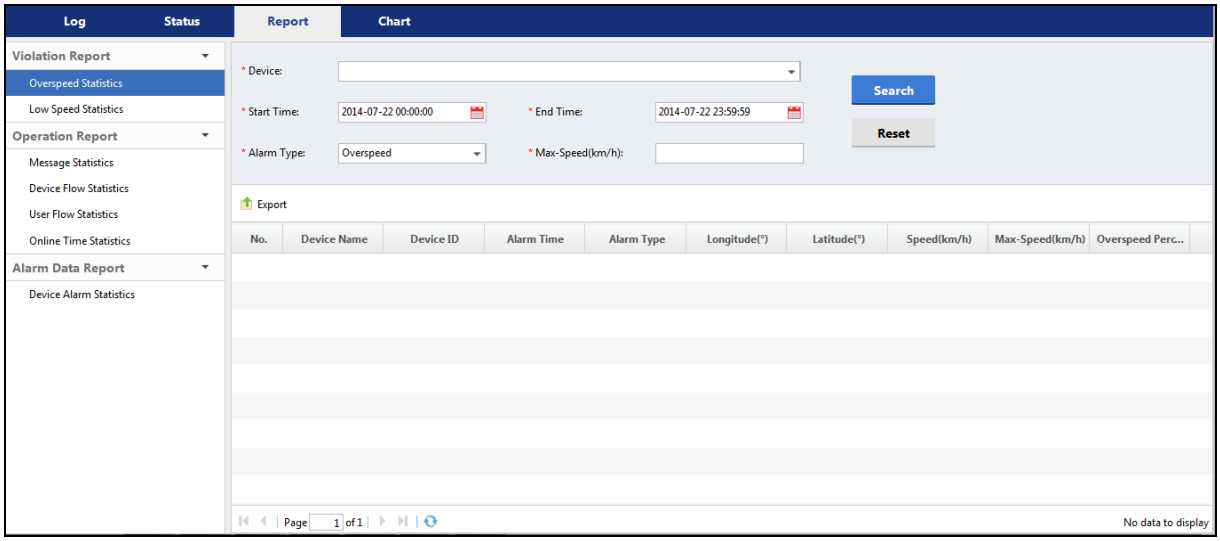

Figure 5. 8 Statistics Report

5.3.1 Searching Traffic Violations Statistics

Purpose:

You can search the traffic violations statistics, including Overspeed Statistics and Low Speed Statistics.

Overspeed Statistics Report

Steps:

1. Click the icon to expand the Traffic Violation Statistics list.
2. Select the Overspeed Statistics from the list.
3. Select the device(s) from the drop-down list.
4. Click the icon to specify the start time and end time.
5. Select the alarm type from the drop-down list.
6. Set the threshold of maximum speed in the text field.
7. Click the **Search** button to search the overspeed statistics.
   You can view the details of overspeed, including the device name, device ID, alarm time, alarm type, etc.
8. You can click the **Reset** button to clear the search results, and do the search again.
9. You can click **Export** to export the overspeed statistics file to the local PC in the format of *.xlsx.

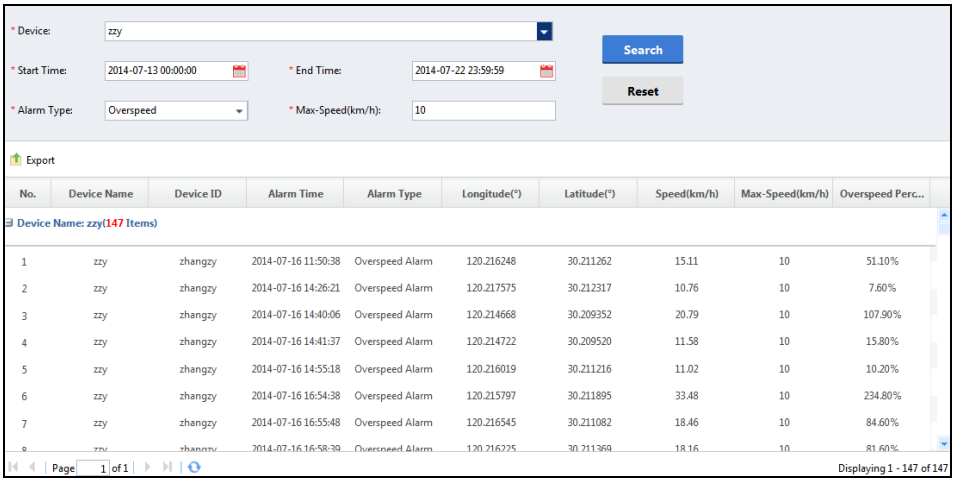

Figure 5. 9 Overspeed Statistics

Low Speed Statistics Report

Steps:

1. Click the icon to expand the Traffic Violation Statistics list.
2. Select the Low Speed Statistics from the list.
3. Select the device(s) from the drop-down list.
4. Click the icon to specify the start time and end time.
5. Select the alarm type from the drop-down list.
6. Set the threshold of minimum speed in the text field.
7. Click the **Search** button to search the low speed statistics.
   You can view the details of low speed, including the device name, device ID, alarm time, alarm type, etc.
8. You can click the **Reset** button to clear the search results, and do the search again.
9. You can click **Export** to export the low speed statistics file to the local PC in the format of *.xlsx.

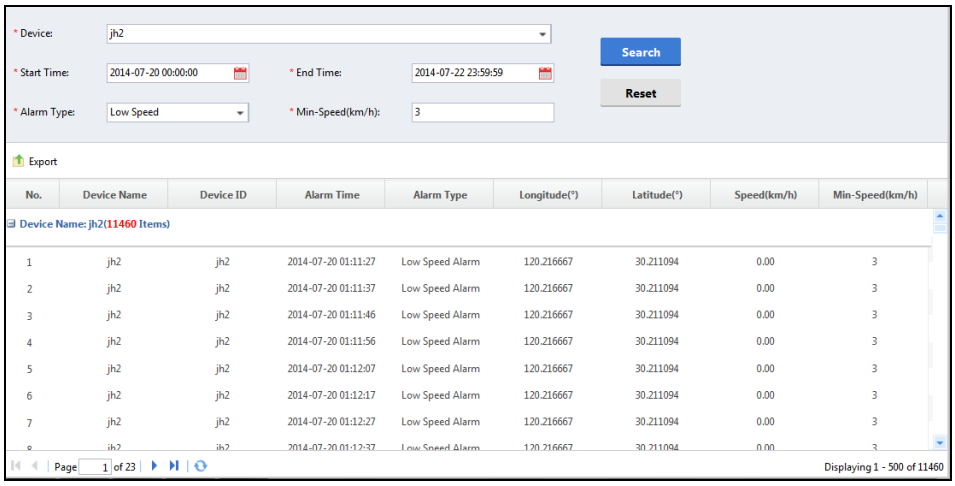

Figure 5. 10 Low Speed Statistics

5.3.2 Searching System Operating Statistics

Purpose:

You can search the system operating statistics, including Message Statistics, Device Flow Statistics, User Flow Statistics and Online Time Statistics.

Message Statistics Report

Steps:

1. Click the icon to expand the System Operating Statistics list.
2. Select the Message Statistics from the list.
3. Select the device(s) from the drop-down list.
4. Click to specify the start date and end date for search.
5. Click the **Search** button to search the message statistics.

   You can view the details of the messages sent from the platform to the device, including the device name, device ID, message ID, message content, etc.
6. You can click the **Reset** button to clear the search results, and do the search again.
7. You can click **Export** to export the message statistics file to the local PC in the format of *.xls.

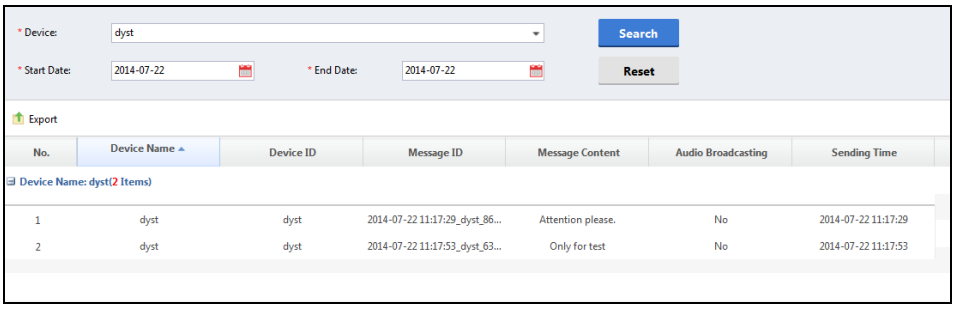

Figure 5. 11 Messages Statistics

Device Flow Statistics Report

Steps:

1. Click the icon to expand the System Operating Statistics list.

2. Select the Device Flow Statistics from the list.
3. Select the device(s) from the drop-down list.
4. Click the icon to specify the month for search.
5. Click the **Search** button to search the data flow statistics of devices.
   You can view the data flow of each selected device and the total data flow of all the selected devices on the specified month.
6. You can click the icon / in the upper-right corner to display the statistics in line chart or table.
7. You can click the **Reset** button to clear the search results, and do the search again.
8. You can click **Export** to export the device flow statistics file to the local PC in the format of *.xls.

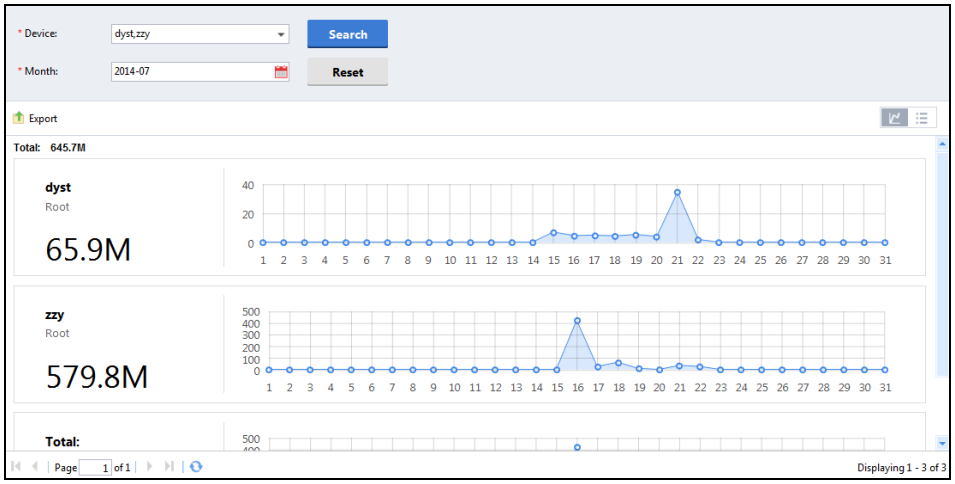

Figure 5. 12 Device Data Flow Statistics

User Flow Statistics Report

Steps:

1. Click the icon to expand the System Operating Statistics list.
2. Select the User Flow Statistics from the list.
3. Select the user(s) from the drop-down list.
4. Click the icon to specify the month for search.
5. Click the **Search** button to search the data flow statistics of users.
   You can view the data flow of each selected user and the total data flow of all the selected users on the specified month.
6. You can click the icon / in the upper-right corner to display the statistics in line chart or table.
7. You can click the **Reset** button to clear the search results, and do the search again.
8. You can click **Export** to export the user flow statistics file to the local PC in the format of *.xls.

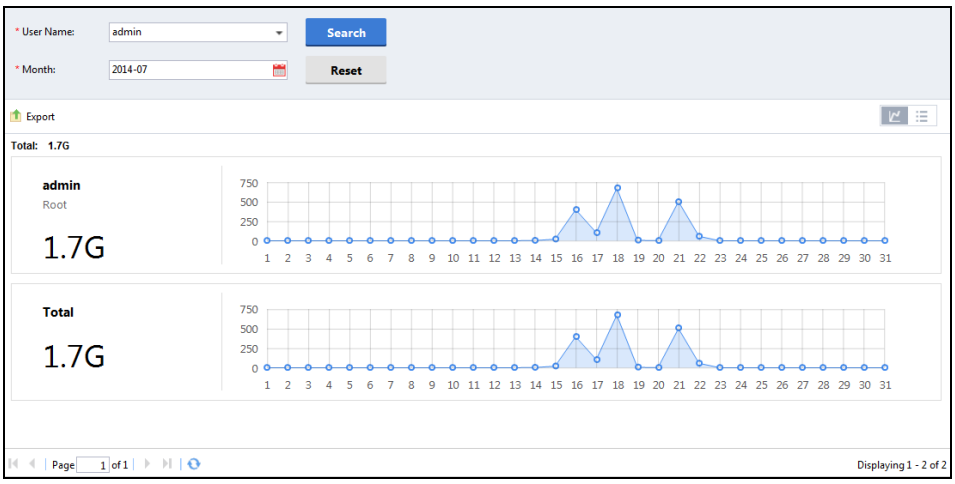

Figure 5. 13 User Data Flow Statistics

Online Time Statistics Report

Steps:

1. Click the icon to expand the System Operating Statistics list.
2. Select the Online Time Statistics from the list.
3. Select the device(s) from the drop-down list.
4. Click the icon to specify the start date and end date for search.
5. Click the **Search** button to search the online time statistics.
   You can view the online time statistics of the device(s), including the organization, online time period, etc.
6. Click the **Details** under the Operation column, you can view and export the detailed online time of the corresponding device.
7. You can click the **Reset** button to clear the search results, and do the search again.
8. You can click **Export** to export the message statistics file to the local PC in the format of *.xls.

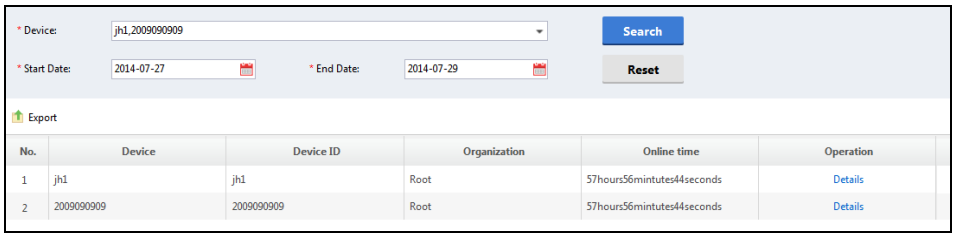

Figure 5. 14 Online Time Statistics

5.3.3 Searching Alarm Data Statistics

Purpose:

You can search the data statistics of device alarms, including HDD Full, HDD Error, Video Loss, etc.

Steps:

1. Click the icon to expand the Alarm Data Statistics list.
2. Select the Device Alarm Statistics from the list.
3. Select the device from the drop-down list.
4. Select the alarm type from the drop-down list.
5. Click the icon to specify the start time and end time for search.

6. Click the **Search** button to search the device alarm statistics.
   You can view the alarm statistics of the device, including the alarm time, alarm type, alarm action, etc.
7. You can click the **Reset** button to clear the search results, and do the search again.
8. You can click **Export** to export the device alarm statistics file to the local PC in the format of *.xlsx.

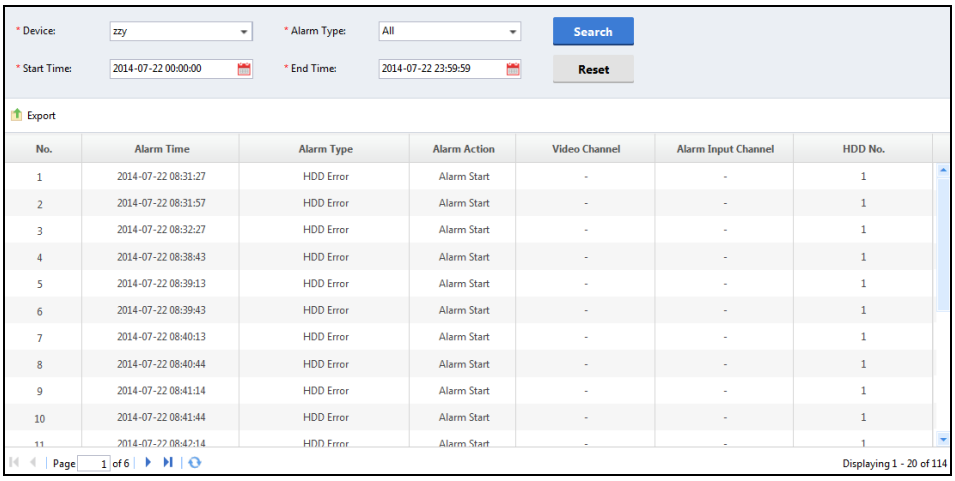

Figure 5. 15 Device Alarm Statistics

5.4 Chart Board

Purpose:

You can view the online rate of devices, traffic violations, device faults today in pie chart or bar chart.

Click the icon on the Home Page,
or click the **Chart** tab on the Query Subsystem page to enter the Chart Board interface.

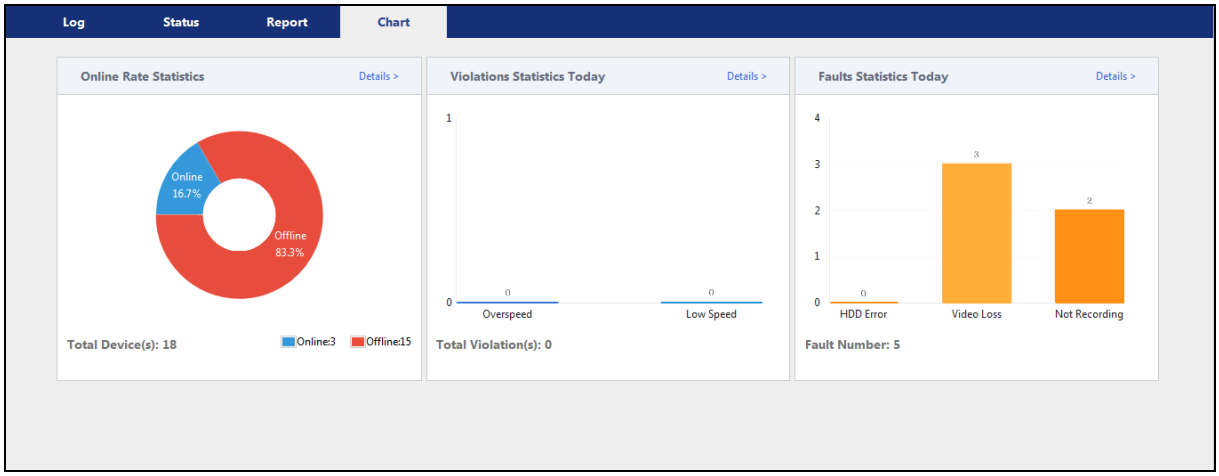

Figure 5. 16 Chart Board

Click the **Details**, and you can view the corresponding detailed information of Online Rate Statistics, Violations Statistics Today or Faults Statistics Today.

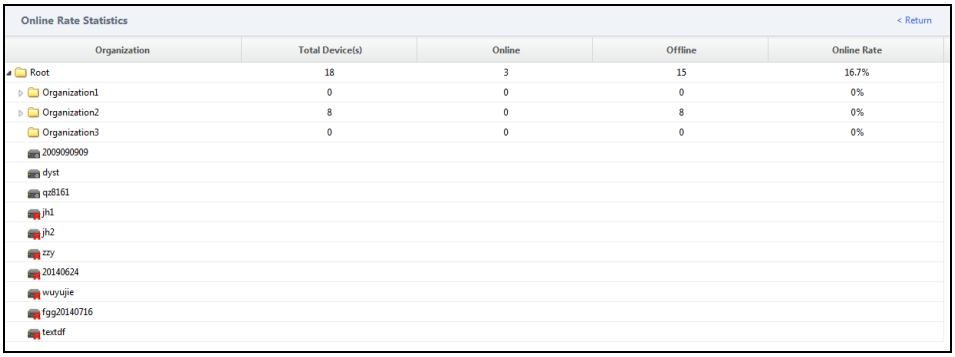

Figure 5. 17 Details of Online Rate Statistics

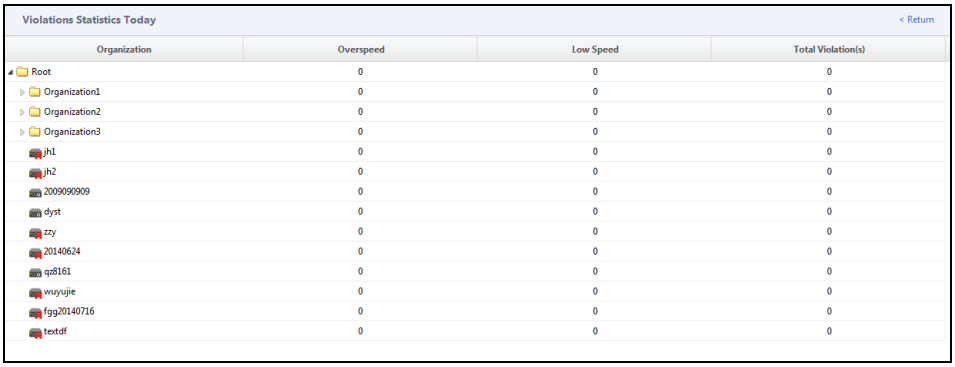

Figure 5. 18 Details of Violations Statistics Today

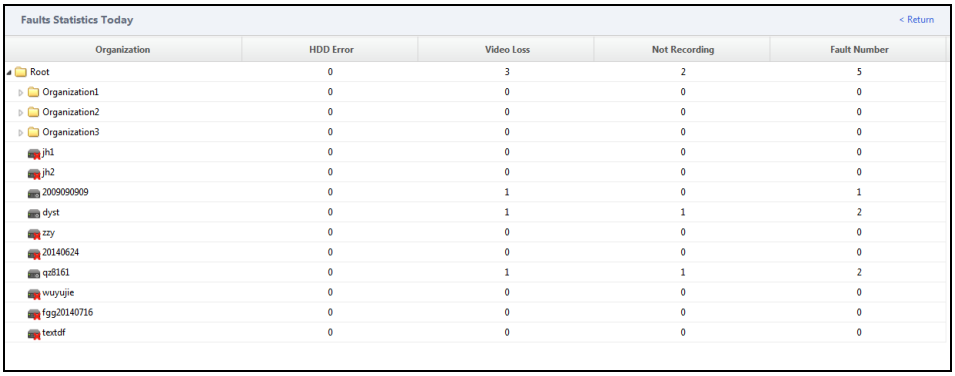

Figure 5. 19 Details of Faults Statistics Today

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